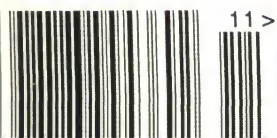


# MacDirectory

THE GUIDE FOR CREATIVE MINDS


DIGITAL LIFESTYLE > REVIEWS > INTERVIEWS > NEWS > TECHNOLOGY > TRENDS > LARGEST MAC OS BUYER'S GUIDE

\$7.95 USA \$9.95 CAN







A hand in a black leather jacket is visible on the left side of the frame, with fingers slightly curled. The background is a deep black, punctuated by vibrant, swirling light trails in shades of purple, pink, and blue that sweep across the lower right portion of the image. The overall aesthetic is futuristic and high-tech.

MacDirectory**Spring2001Edition**

and space, and stretches your computer's

that gives your desk beauty

1  
2  
3  
4  
5  
6

With a design that spares and sharpens any

desk area, the hub offers compact

symmetry with graceful savoir

faire. You'll be dazzled by its

capabilities, and you'll

love what it does for

your configura-

tion's

looks.



Port

symmetry

Speed Chic — compact





# FireWire 6-Port Hub

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*CanoScan D660U  
Scanner*

*CanoScan N656U  
Scanner*

*CanoScan N1220U  
Scanner*



*BJC-85 Printer*

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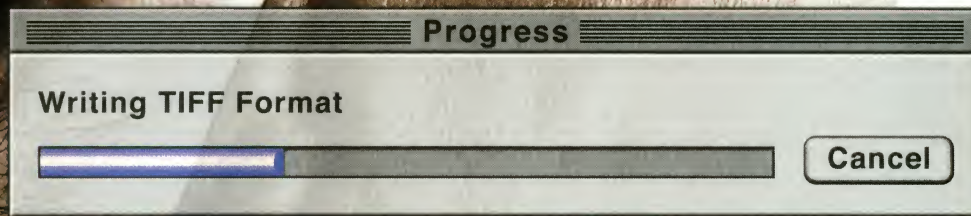


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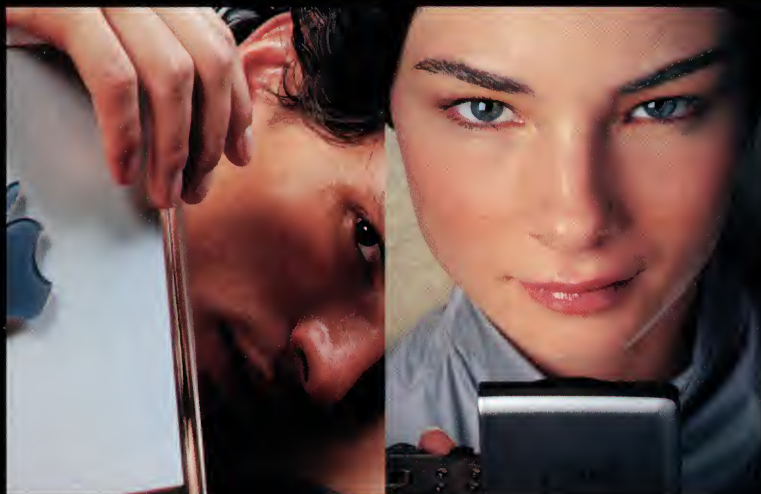
Lunar





Classic





**How to reach us?** Send letters to [letters@macdirectory.com](mailto:letters@macdirectory.com)

MACDIRECTORY WINTER 2000 COVER

DIGITAL CAMERA REVIEW GOES FASHION

**Winter Cover >** I absolutely loved the Winter 2000 MacDirectory cover. When I passed by the newsstand, the cover really stuck out compared to the other drab business and PC-industry tomes. Macdirectory is as beautiful design wise as Apple. **Patrick Sedgewick, Worcester, MA**

**MacDirectory Top 10 Awards >**

The MacDirectory Ten awards issue was enjoyable. Carly Fiorina of Hewlett Packard was my favorite of the bunch. It was good to see a woman among all those powerful men. We've come a long way, baby. Aside from being strong and attractive, Carly Fiorina is brilliant!

**Penelope Vidal, Newport, VA**

**Awards at Last >** The MacDirectory Top 10 Awards at last! Reading the qualification process and the winners is always a totally exciting experience. The work of Rob Burgess, John Warlock, Steve Jobs and everyone else is outstanding! My only request for the Awards next year is that you invite me to the ceremonies in New York. I would like to shake hands with Carly Fiorina :) )

**Nora Previn, Bar Harbor, ME**

**G4 Cube Attack >** The strongest part of MacDirectory's G4 Cube article: the unbiased point of view for your readers. You demonstrated the weak points of the G4 Cube in a manner that I was unable to read anywhere else. You also educated me on the value and power behind Apple's design team. No one delivers new concepts in design as Apple Computer. Thanks for the very educational article and please continue the great work. **Oscar Villanueva, Seattle, WA**

**Digital Camera Goes Fashion >** Has anyone else noticed the fashion angles in the last few editions of MacDirectory? The digital camera buyer's guide was one of the most innovative articles that I have ever read - design, photography and content. James' photo shoot read like a merger between fashion and technology which made the reading very interesting. It grabbed my attention immediately. **H. Boyden Clay, Cartage, TN**

**Apple Master >** Dr. Jemison is more than just a professor, astronaut, doctor, Peace Corps. officer, scientist and foundation head. Dr. Jemison is also a great humanitarian who inspires others by her efforts to bridge the digital divide through The Earth We Share program. The interview was truly inspiring. **Ansonia Padgett, Summons Island, GA**

**Web Focus >** Your last edition provided an excellent range of web solutions. As a web developer and teacher, I especially enjoyed your buyer's guide on web solutions. It offered me a complete list of applications available for my Mac which helps inform my students about the latest solutions. **John Oliver, San Francisco, CA**

**Lack of Games >** Although I am a die-hard fan of MacDirectory, I feel that there is not enough Mac gaming coverage. For me, my Mac is where I spend a large portion of the day playing games. I'm sure there are a lot of people like me out there who want more game coverage.

**Vincent Falterusso, Saratoga Springs, NY**

**Macs in Africa >** Your article on Macs in African was like mothers' milk. It is very sad indeed that international sanctions, like the ones applied to South Africa only worsened the digital divide. **Joseph Offiong, Miami, FL**

**Underworld >** MacDirectory's Underworld interview was so cool! I have been a fan of the band for a long time. I thought I knew everything there was to know about them. Glad to know that I can still be surprised.

**Salvatore Dellasandro, Providence, RI**

**Photoweber >** The piece MacDirectory did on Photoweber helped me make an educated choice as a consumer. I owe you MacDirectory.

**Al Deitch, Long Island, NY**

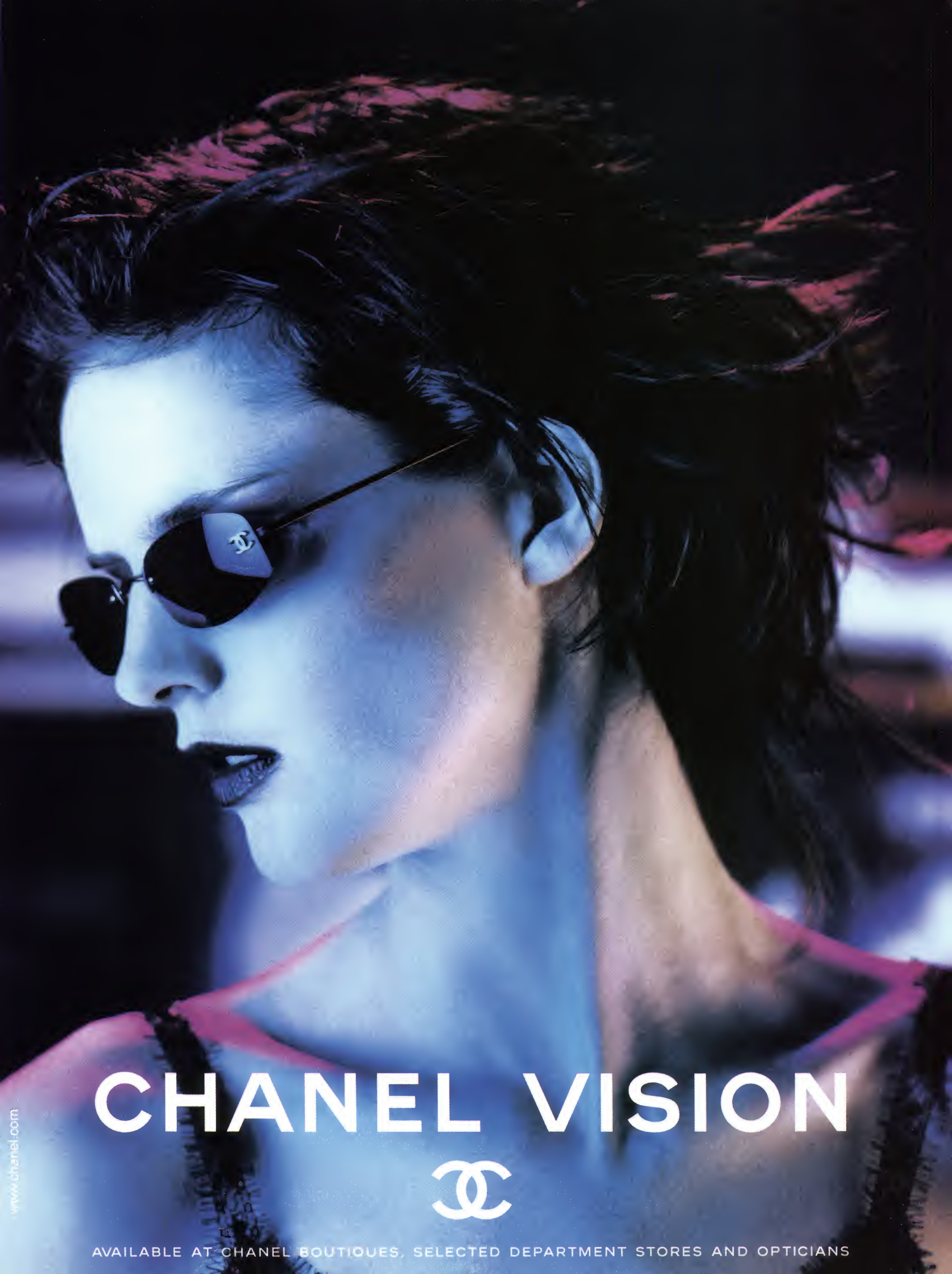
**DJ Perl >** Three words: More DJ Perl!  
**Molly Swanson, Ypsilanti, MI**

**Helen Garber Interview >** It may be true to a point that digital tools influence the work. But in my opinion, what is possibly worse for fine art is a pervasive graphic arts sensibility that is everywhere. When artists start striving for the goals of graphic art - instant legibility and so on - it indeed corrupts fine art. Once in a while I paint, and when I do, I like to use 'traditional' media just like Helen Garber. This is simply because I work with computers for technical purposes all day long and picking up a brush is something different. The medium itself is neutral to me.

**Robert Fields, Wrang & Casas Public Relations**

**MacDirectory Design >** An issue of MacDirectory was recently brought to my attention and I was very excited to see the wonderful layouts in your magazine. It is exciting to see a technology based magazine that gives careful consideration to aesthetics. **Kristen Gonzales, Internet, J3 Productions**





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**Subscription** > \$32 for 4 issues (one year) or \$62 for  
two years. Mail check or money order to:  
MacDirectory Subscription Dept.  
150 West 25th Street, NY, NY 10001.

**Comments** > letters@macdirectory.com

**Publisher** > Entire contents ©2001 American C&T  
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The G4 also has an improved system architecture featuring a new 133MHz system bus which can move data at speeds of over 1 gigabyte per second.

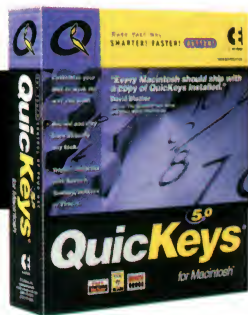
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Company > Belkin Components

Price > \$99.99

Web > [www.belkin.com](http://www.belkin.com)





## PrimeFilm 1800

This high-resolution 35mm film scanner's Bondi Blue body is the perfect compliment to your iMac, or any Mac for that matter. Features: 1800 dpi (or 4.2 million pixels for a 36 x 24mm image), software enhanced maximum resolution of 19200 x 19200 dpi, a 512 K byte scanning buffer, 10 second color preview, 35 second scanning speed, USB interface and weighs 750 grams.

Company > Pacific Image  
 Price > \$199.99  
 Web > [www.scanace.com](http://www.scanace.com)



## Jukebox 6000

The **Jukebox 6000 MP3 Player** from Archos combines premier MP3 sound with six Gigabytes (6GB) of mobile storage capacity in a compact, pocket-sized design. The Jukebox 6000 allows the user to merge their entire library of MP3 music (up to 6000 minutes or 150 audio CD's) and data files (texts, presentation, images, e-mail, video, etc.) on a single portable unit.

Company > Archos Technology  
 Price > \$349  
 Web > [www.archos.com](http://www.archos.com)







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## HipZip

Iomega's **HipZip** is a portable digital audio player that delivers CD-quality music. The HipZip uses **40MB PocketZip discs**, \$10 each, to store more than 80 minutes of digital music. Features: anti-skip design, built-in lithium battery that carries a 12-hour charge, a quality equalizer, back-lit display, compatible with MP3 format and can serve as a pocket-sized external Zip Drive to download or transport any digital information, not just music.

Company > Iomega

Price > \$299.95

Web > [www.iomega.com](http://www.iomega.com)



## Hollywood DV-Bridge

**Hollywood DV-Bridge** bridges the incompatibility between analog and digital video. The DV-Bridge allows you to convert analog video to digital video. You can then edit it using iMovie, or other DV editing tools and save the video as analog or digital video. The DV-Bridge also allows you to convert digital video to analog video.

Company > Dazzle Multimedia

Price > \$299

Web > [www.dazzle.com](http://www.dazzle.com)





Words by MacDirectory Readers > [baroness@macdirectory.com](mailto:baroness@macdirectory.com)

## Baroness > MacDirectory's tech goddess

**Q:** Baroness, I recently downloaded iTunes, Apple's new and free audio player for the Mac. Please tell me what audio files are compatible. **Sam Ernst Brooklyn, NY**

**A:** Darling, of course the Baroness can help make your iTunes listening experience a snap. These files will work with iTunes: QuickTime Audio (*audio only movies*), MP3, audio CD, AIFF, AIFC, System 7 Sound (*SND*), uLaw (*AU*), WAV and Qdesign.

**Q:** Baroness, how can I secure my iBook when it doesn't have a security slot? **John O'Brien, CA**

**A:** Darling, it is true that iBook and iBook (*FireWire*) computers do not have a security slot. To secure an iBook computer, say in an office, you'll need to run a security cable through the iBook's handle. Almost any security cable system that works with an iMac will work with an iBook. Next, secure the security cable to a fixed object or surface like a rock or that big fella in accounting who never leaves his desk.

**Q:** Baroness, I want to know how to tell if my iBook battery is fully charged. **Mary Pierce, FL**

**A:** My Darlings certainly have a lot of questions about their iBooks. Luckily, the Baroness has the answers. If the battery is being charged, the AC power port on the rear of the iBook will glow amber. It changes to green when the battery has a full charge. Another way to tell is check the battery icon in the menu bar. It will have a lightning bolt through it when the battery is charging. The lightning bolt disappears when the battery is fully charged. Finally, the battery icon in the Control Strip will show the same lightning bolt when charging. It also disappears when the battery is fully charged.

Keep in mind, the Lithium-Ion iBook battery will take approximately two hours to fully recharge when in sleep mode or when shut down. If the computer is running, the charge time doubles to approximately four hours.

**Q:** Baroness, can you help me find and access the 10,000 pieces of clipart that come with *FreeHand 7*. **Jen Lowens, NJ**

**A:** Darling, dust off that *FreeHand 7* CD because you're going to need it. The clipart takes up several hundred megabytes of disk space, so it is not installed with *FreeHand*.

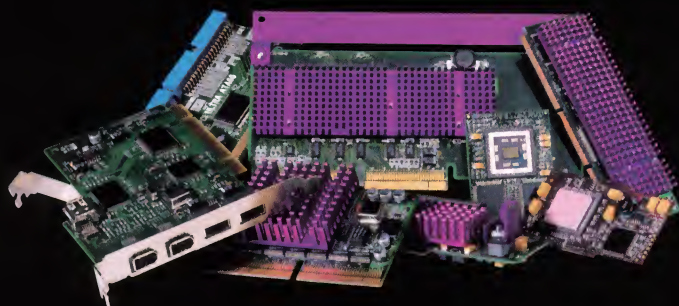
Let the Baroness walk you through it: Launch *FreeHand*. Insert the *FreeHand* CD. Go to the *FreeHand* File menu and open the clipart folder. Inside the folder you'll find folders for each of the chapters in the clipart book. (*Some of the folders are subdivided by categories*). Select a filename and it will display an image preview. Open the piece of clipart you want. You can then save it to your hard drive. Don't be a silly goose and try to save the image to the *FreeHand* CD. It won't work because it's a *Read Only* disk.

**Q:** Baroness, I get a lot of *cryptic error messages* when I'm downloading files from the Internet. What do they all mean? **Linda Newsome, UT**

**A:** Darling, are you sure you're ready to uncover the secret meaning behind those dastardly error messages? Double sure? OK, here are a few:

"-39 error" - indicates that the file is not complete. The most common cause of this error is related to a bad or dropped connection to the server during the download process. Try





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downloading the file again. If you are using America Online, try using a stand-alone Web browser instead of the built-in America Online Browser.

"Server not connected" or "Communication exception" or "Server busy" error - This is usually a network issue between the client and the server. There is no straightforward way to determine where the issue lies, so your best bet is to try to connect to the server again. Try connecting to another site; this would indicate if the issue is with your connection, or only with the site you are trying to reach.

"Checksum invalid" message: All disk images are created and validated in a clean room environment. The checksum is a way for a disk image program to verify all information for the given image is there. If you get repeated checksum data failure messages after several downloads of the same file from several servers, you should try downloading a different file. Check your hard drive using Disk First Aid and try to download the file again.

**Q:** Baroness, if I connect my PowerBook to the television, will iTunes' full screen visuals work? **Edward McMullan, VA**

**A:** Darling, the Baroness likes to watch late-nite TV so I have your answer...You can connect your PowerBook to your television to watch iTunes' full screen visuals, but the screen remains in Small, Medium, or Large. It won't switch to Full Screen. You may also see a blank, black screen on the TV and the PowerBook. Try the following: 1. Connect your PowerBook computer's S-video output port to your television. 2. Set the computer's screen resolution to 640 by 480 pixels using the Monitor Resolution portion of the Control Strip, or the Monitors control panel. (*iTunes' Full Screen Visuals feature uses the 640 by 480 resolution.*) 3. Restart the computer. 4. Open the iTunes application. 5. Play a song. 6. Choose Full Screen from the Visuals menu.

If you disconnect your computer from the television, change screen resolutions, and restart the computer, you will need to follow these steps again to display iTunes' Visuals in Full Screen on your television.

**Q:** Baroness, should I upgrade my system software to the new version 9.1?" **Chen Wu, IL**

**A:** My answer to you and thousands of undecided Mac lovers is a definitive maybe.

Darling, what you use your computer for now, and what you hope to use it for in the future, best determines when/if to upgrade your system software when a major upgrade comes

out. And OS 9.1 is a major upgrade requiring the download of 15 files of 3-4 MBs each! If your internet connection isn't DSL, cable or faster, that's a lot of dial-in time. Who cannot upgrade: Anyone who does not have OS 9.0 or 9.0.4 running on their system. To upgrade from OS 8.0, 8.1, 8.5 or 8.6 you'll have to buy a version of OS 9 in which case it makes more sense to buy OS 9.1, rather than paying for OS 9.0.4 and then having to download the upgrade. 9.1 is currently available at many retailers, and from the Apple Store. Who should not upgrade: Are you currently running the beta version of OS X? If you are, installing OS 9.1 will disable the Classic emulator in OS X the only way to removed OS X from your machine is to zap your hard drive of all files not just the system software and start from scratch. Also, folks whose computers work just fine, who don't plan on upgrading any software (*or buying any new software*) in the coming months. The old, 'if it ain't broke, don't fix it,' certainly applies when it comes to computer upgrades.

**Q:** My Mac does not start up properly or behaves erratically. Help!!!!!! **Marge Winkler, CA**

Darling, you are the one that appear erratic. Have a drink, relax and follow these steps.

1. Start up your computer while holding down the Space bar. When the Extensions Manager control panel appears, release the Space bar.
2. Open the Selected Set menu and choose the item with the words 'Mac OS Base.' This turns off all extensions and control panels except those installed with the Mac OS.
3. Close the Extensions Manager to continue startup.
4. When the computer is finished starting up, try the same actions that caused the problem. If the problem no longer occurs, you probably have an extension or control panel that doesn't work with this version of the Mac OS. Continue with the steps in 'Test Individual Extensions and Control Panels,' next, to identify the item that is causing the problem.

One last thing Darling, the Baroness is not always right. (*Gasp!*) I know. It's hard to believe. I recently told you that you could add an alias of the hard drive to your Apple Menu to give you a hierarchical menu of everything in the hard drive. It works, but as one reader pointed out, it's not a good idea.

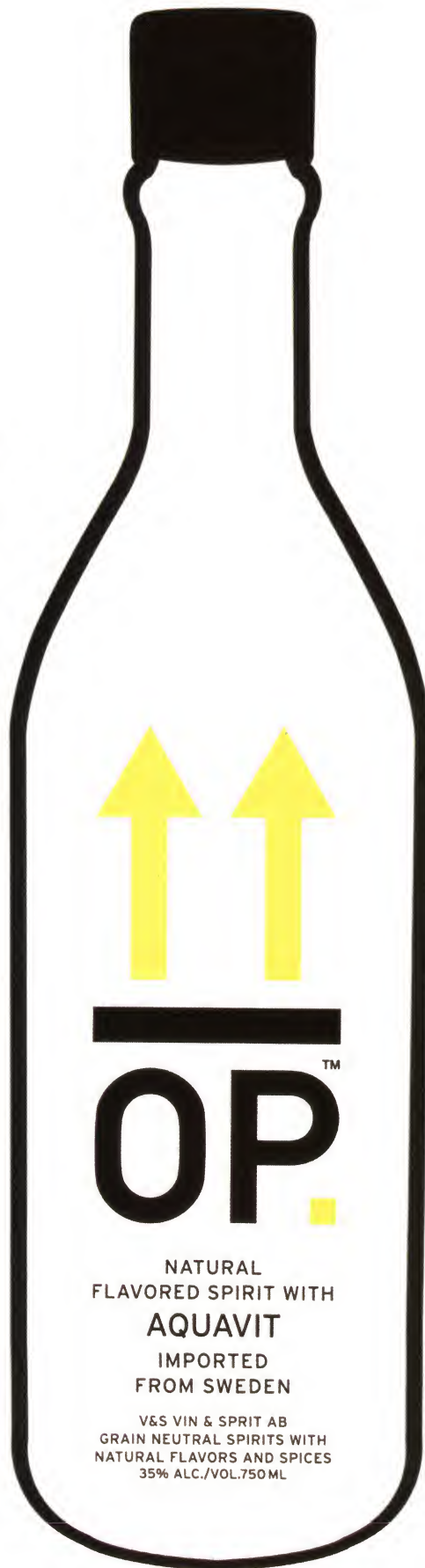
Until next time.

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As a photo retoucher, it is Judy Tucker's job to make sure those striking visuals are executed flawlessly.

Tucker, a New York native, attended **SUNY** (*State University New York*) in **Oneonta** where she studied Fine Art and Photography.

"I remember doing figure drawing and thinking 'the models, I need to freeze them.' So, I started taking photography because I felt it would help my drawing," Tucker said, "What ended up happening was that I became involved in photography as another form of art."

**MacDirectory:** What was the transition?

**Judy Tucker:** "After I got out of college I had all this ability, all these interests, and no idea of what to do with them. I discovered retouching on my first job in Manhattan. I was working at a full service photography lab. It was just around the time that computers started becoming the answer to a lot of retouching questions. I began working on my own photographs. I really learned retouching on the job."

**MD:** How many years were you there?

**JT:** "About eleven and a half years. I started out as an administrative





# Digital Magic > Judy Tucker

IMAGES BY FRITZ KOK  
WORDS BY LYNDA VERMIST













assistant to the president of the company and worked my way up to managing their retouching division."

**MD:** And then?

**JT:** "Stuart Orns discovered me through a mutual friend when he was starting Hound Dog."

**MD:** What does Hound Dog exactly mean?

**JT:** "Stuart owns an incredible black Lab named Elvis. When we were thinking of a name for the company, we wanted to come up with something that was about who we were, but that didn't scream "We do retouching!" We knew that Elvis would be at the center of what we were doing, and he is. The company name just fell into place."

**MD:** What's your position?

**JT:** "I'm *Director of Retouching*, which means I deal directly with people to get a feeling of what they're trying to achieve."

**MD:** You're almost like a creative consultant?

**JT:** "More like a creative interpreter. The client tells me where he wants to go and I, being familiar with technology as well as drawing, take him there. If he wants my artistic input great, if he doesn't, that's fine too."

**MD:** How much flexibility do you have in the creative process?

**JT:** "As much as the job gives me. Sometimes we get jobs that are









'Take this bottle and silhouette it' - how creative is that? At other times, the job may need more subtle or varied solutions. I'll just ask, 'How about this? Or this?' There are a couple of projects coming up that I'm particularly excited about because they offer a lot of room for creative input."

**MD:** You currently use a *Macintosh* system because of its interface and graphics capability, but have you always used *Macintosh* computers?

**JT:** "No, I used to work on *Shima Seki Paint Box* before Macs were what they are today. There was also something called *Quantel Paintbox*. The monitor was fabulous and you could move the image around in real time. You had these great big brushes. It was very impressive for its time. The *Shima* was designed for the textile industry and they stopped the graphic end. Macs have come so far. There was a time when I was using my Mac just as a connection between my computer and the rest of our network. I used the Mac and the Paintbox in unison - doing different parts of different jobs on different computers. Eventually, I preferred working exclusively on Mac, especially when *Photoshop* came out with multiple layers."

**MD:** Where do you see yourself in the future?

**JT:** "I love what I do, and I'm one of the few fortunate people in this world who can say that. I can see modern lines becoming so strong that we're going to be able to send larger files back and forth. I'll be doing computer manipulations and artwork from home or the beach." ❧



PHOTOGRAPHY FRITZ KOK AT UNIT > ASSIST LUC DE NIJS > MODEL LAETITIA VENEZIA AT VIVA PARIS > MAKE-UP TOPOLINO > HAIR ERIC BENAZET > STYLING LIONEL BOUARD AT UNIT > SPECIAL EFFECTS JUDY TUCKER AT HOUND DOG > ABOUT THE REEBOK AD WHICH APPEARS ON PAGE 12 & 13 > PHOTOGRAPHY & RETOUCHING - JUDY TUCKER > ASSISTING & STYLING - JOSETTE LATA > ADVERTISING AGENCY - BARTLE BOGLE HEGARTY







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# Apple's Future is Down the Nanotube

IMAGE OF A MICRO-NANOFIBER

WORDS BY RON MWANGAGUHUNGA &gt; IMAGES BY JOHN COLESKY

IN 1991 AT THE NEC FUNDAMENTAL RESEARCH LABORATORY, SCIENTIST SUMIO IJIMA WAS USING AN ELECTRON MICROSCOPE TO STUDY THE MATERIAL DEPOSITED ON A CATHODE AFTER AN EXPERIMENT ON FULLERENES, CAGE-LIKE MOLECULES THAT CONSTITUTE THE THIRD FORM OF PURE CARBON ALONG WITH DIAMOND AND GRAPHITE.

Iijima found strange microscopic threads folded in hexagonal patterns, which were inadvertently created during the experiment. These threads were carbon nanotubes, which are essentially long, thin rolled up layers of graphite.

## They just might revolutionize the world.

Since their discovery, scientists, corporations and the government have vigorously investigated nanotubes. Since then, scientists have synthesized single-layer nanotubes surpassing Iijima's original discovery, which produced multi-layered tubes.

According to **NASA** scientist **Subhash Saini**: "The single-wall nanotubes are the strongest fibers known, and depending on how the carbon sheet is rolled, a nanotube possesses unusual electronic properties."

**Phillip G. Collins** and **Phaedon Avouris** report in *Scientific American* that nanotubes are "resilient, have great tensile strength and thermal stability."

The possible applications of nanotubes in engineering, robotics and architecture seem boundless. For example, adding cobalt resulted in an extremely fine tube with single-layer walls. Mr. Saini says the "single-wall nanotubes can be either metallic or semi-conducting, thus providing the possibility of nanotube heterojunctions for nanoelectronic components in future ultra-fast computers."

The corporate world has also been economically driven to explore the unusual electronic properties of nanotubes.

**General Motors** already uses nanotubes to help paint some of its cars. *Scientific American* reports that two nanotube based lighting and display products are on their way to market.

**IBM** also has become increasingly involved with Iijima in expanding nanotube technology. Biotechnological concerns are sure to become central players in nanotube research, as will companies involved in robotics, architecture and all forms of industrial design.

**Apple Computer, Inc.** helped sponsor a recent conference on molecular nanotechnology at Stanford University, and has become a key sponsor of similar conferences.

Thus far nanotubes have been most useful in electrical applications. They are expected to be useful in biological engineering because research has revealed that nanotubes can be opened and filled with molecules. This raises fascinating possibilities for genetic research.

While nanotube technology is still in its infancy, more applications are sure to come.

As experts point out: "carbon nanotubes can play the same role as silicon does in electronic circuits, but at a molecular scale where silicon and standard semiconductors cease to work."

Historically, nanotubes have arrived at a time when they are most needed. **Moore's Law** has driven electronic miniaturization toward the molecular-level. In the words of *Scientific American Journal*, "the electronics industry is already pushing the critical dimensions of transistors in commercial chips below 200 nanometers (a billionth of a meter, or about 400 atoms wide) engineers face large obstacles in continuing this miniaturization. Within this decade, the materials and processes on which the computer revolution has been built will begin to hit fundamental physical limits."

**Then, along came the nanotube. ❧**



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## Putting the e in Election

WORDS > RON MWANGAGUHUNGA

THE WILDEST ELECTION IN MODERN HISTORY WAS RECENTLY DECIDED BY THE U.S. SUPREME COURT. WHILE SOME GRIPE ABOUT THE OUTCOME, ONE THING IS FOR CERTAIN: THIS YEAR THE WEB CAME INTO ITS OWN FOR ELECTION COVERAGE. IN MANY WAYS THE ELECTION WAS MORE FARICAL THAN IPOCRACY.COM --REMEMBER STEVE JOBS' SEYBOLD KEYNOTE DEMO OF THE ELECTION SPOOFING SITE?

Among the electronic controversies that surrounded the strangest election in modern history was the *Nadertrader.com* fiasco. 'Nader Traders' were progressive voters in battleground states who, theoretically, traded votes with Gore voters in safe states. In the last two weeks of the campaign, *NaderTrader.com* professed to having registered 714,230 hits. Ultimately, several states, most prominently California and Texas, declared the process illegal.

No doubt this sociological trend, which The Industry Standard called "a fascinating and important development" will be well explored in future doctoral dissertations.

**Matt Drudge** was also an e-factor in the election. Drudge is no stranger to the Apple community. In July he falsely reported that **Steve Jobs** was planning a Disney-Apple-Pixar merger to leverage himself to the chairmanship. Soon afterwards, Jobs denied that old story in an interview with Business Week.

Media watchdog magazine **Brill's Content** recently investigated 31 Drudge Report 'exclusives' dating

from the period of January to September 1998. Of the 31: 10 were untrue, 11 true, and 10, at the time of the story, had a status of unknown.

Drudge threatened to post exit polling data on his Web site on election night before polls closed in most of the country, which drew millions of visits. Ironically, this irresponsible threat was carried out by many respectable media outlets. In the past month, Drudge had 51,092,377 visits. That is roughly one-eighth of the visits *Drudgereport.com* received in the past year.

The now defunct *Pseudo.com* made a celebrated appearance at the Republican National Convention, and was treated respectfully with Old Media press credentials. *Salon.com* earlier in the primary frenzy made news often, especially when a staff writer tried to infect Republican candidate Gary Bauer with a bad cold.

New Media organizations tended to cover the election with less ethical gravitas than their staid Old Media counterparts. While fund raising and campaigning was mostly off line, candidates of the Republican, Democratic, Green, Reform and Libertarian Parties were much better about using the internet.

All in all, the electronic presence grew in this election.

At press time, New York Senator **Charles Schumer** is proposing an initiative to fund exploration to voting alternatives. One of those alternatives would be internet voting. ☒





Photo: RAFAEL ZABIK

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WORDS BY RON MWANGAGUHUNGA > IMAGES BY JOHN COLESKY

### Defending the Digital Frontier by Hacking

MANY COMPANIES SPONSOR HACKS ON THEIR INFORMATION SYSTEMS TO TEST THEIR VULNERABILITY. THE RED TEAM, AS IT IS INFORMALLY KNOWN, IS A PROMINENT GROUP OF CORPORATE-SPONSORED HACKS LOCATED AT SANDIA NATIONAL LABORATORIES IN ALBUQUERQUE, NEW MEXICO. AT THE INVITATION OF CORPORATE, GOVERNMENTAL AND MILITARY AGENCIES, THE RED TEAM HAS SUCCESSFULLY INVADDED DOZENS OF INFORMATIONAL SYSTEMS.

Last summer, **DARPA** (*Defense Advanced Research Projects Agency*) asked the Red Team to teach a group of government agencies how to think like a cyber-attacker to help them design better information systems.

### Who is this stealthy Red Team?

Unfortunately, there's no easy answer.

**Michael Skroich** founded the team in 1996 as the **iDART** (*Information Design Assurance Red Team*). Skroich is now on assignment with DARPA. *Sandia National Laboratories*, the parent company of The Red Team, is a multi-program laboratory operated by a subsidiary of the *Lockheed Martin Company* for the United States Department of Energy.

**The short answer:** The Red Team is the most prominent team of professional hackers around.

Of all security threats, The Red Team takes cyber-terrorism most seriously because of the high-level of danger. While a malicious mercenary hacker is a threat, a well-funded cyber-terrorist has, as team leader of The Red Team Ruth Duggan says: "*the resources of a small nation state*." A well-funded cyber-terrorist could pay off an insider for information on hacking the organization's security and then wreck havoc.

The Red Team explains the kind of threat a hacker could pose.

"The extraordinarily broad abilities of cyber attackers — from professional hackers to terrorists to state- and corporate-sponsored aggressors — to penetrate any system they desire can result in pilfered information, corrupted data, a change in the order of operations or a flat denial of services. Any of these, to an individual, is an annoyance. To major-corporations, they could result in billions of dollars misplaced or stolen, or in the loss of reputation. In a medical or military emergency, an adversary who could intercept messages, corrupt data and deny access to services could cause catastrophic damage."

Hackers, of course, are not all stereo typically malicious characters. Apple CEO **Steve Jobs** and Apple II inventor **Steve Wozniak** both began their careers as hackers. To this day, both Jobs and Wozniak enjoy a near mythical status in the hacker community.

This past March, the Sandia scientists linked three Apple 292-MHz Macintosh PowerBook G3 systems, a 400-MHz PowerBook G3 and a 333-MHz Power G3 Tower on an Ethernet hub.

The systems ran *Yellow Dog Champion Server* Linux Version 1.1.4. The Red Team also installed its own intelligent software agent on each of the systems. The four-person Red Team attacked the network for two days from a mix of Pentium PCs running Red Hat Linux 6.0 from Red Hat Inc. They used a Pentium PC running Microsoft Windows NT to act as a host for sniffer programs. Using attack programs found in the public domain - Nmap, Toast and Snort - The Red Team attempted, but ultimately failed, to enter through a node on the hub as if it were operating on the same network as the linked Apple computers.

The Red Team's methodology involves role playing, or, "*thinking like an attacker*." The Red Team assumes the role of a "*bad guy*" to replicate a

malicious hack. Groups of three to eight hackers from Sandia often begin by telling the client when they will attack, which allows the client to be fully prepared. Being prepared allows the client to see how well protected their system is against incoming hacks when the system is at its best.

The Red Team asks the client for a nightmare scenario, the worst case situation, which they do their best to oblige to create the ultimate security. The client's "*defenders*" then have time to prepare "specific, automatic, and even redundant defenses for their software, platforms, firewalls and other system components." By being prepared against the worst hacks, a company can focus on less seismic weaknesses.

The Red Team's results are disconcerting for clients because the hackers never fail to breach a client's security. There is no such thing as absolute security in the computer age. The Red Team found every system it encountered hackable, even corporations that have spent a tremendous amount of money for the best security. The Red Team proves money can't buy security.

The Red Team's method of testing absolute preparedness with the devious approach of a well-funded hacker is the best possible way to prepare against being hacked.

On a corporate-level, hackers can cause billions in damage. On a personal level, The Red Team says a hacker can cause problems by tampering with "e-commerce, transmitted or Net-stored financial data - from credit cards, money-machine cards, and bank accounts, as well as medical data."

Nothing is for certain nowadays, certainly not cyber-safety. The Red Team, however, presents a competent and credible defense. ☒





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this cordless thing could work.

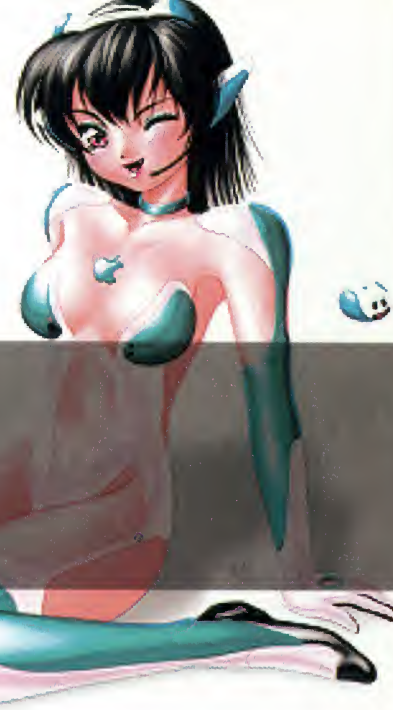


It's not hard to see that freedom is a good thing. So we took the comfort and flexibility you like in a remote and put it in a mouse. The **Cordless MouseMan® Wheel** even uses radio frequency, so you don't have to point it at your computer. From up to six feet away, you can point, click and scroll with a mouse that's specially designed to feel great in your hand. What's more, it has a unique iTouch™ WebWheel that provides one-click access to the Internet. The Cordless MouseMan Wheel. Just one of the many ways to create your desktop with Logitech. [www.logitech.com](http://www.logitech.com)



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## Offensive to Apple? >

The iMac girl created by artist Satoshi Igarashi turned heads in Japan and in the United States.

SHOULD STEVE JOBS STEP DOWN FROM PIXAR AND CONCENTRATE ON APPLE?

No	
Yes, Probably	50%
Yes, Absolutely	15%
	34%

SHOULD STEVE JOBS CONSIDER ASKING STEVE WOZNIAK TO RETURN TO APPLE TO HEAD UP DEVELOPMENT?

Yes, Woz has done it before and is the perfect man to help bring Apple back to profitability.	
No, Jobs can bring Apple back without Woz.	87%
	12%

WHAT DO YOU THINK ABOUT THE BONDI BLUE BABE?

Misrepresentation of Apple's brand	29%
Offensive and sexist	37%
Beautiful and imaginative	34%

SHOULD APPLE RETURN TO THE HANDHELD MARKET WITH A PDA DEVICES?

Yes, it's about time	
Maybe, Apple should consider PDA's	40%
No, Apple is doing now what Apple does best	30%
	29%

IS APPLE RIGHT IN ITS LITIGIOUS BEHAVIOR TOWARDS RUMOR SITES (SHUTTING THEM DOWN)?

No, Apple is behaving overly censorious	
Yes, rumor sites obtain content unethically	47%
No, but Apple has slowed its litigation efforts	40%
	13%

APPLE'S CFO FRED ANDERSON EXPECTS REVENUES FOR FISCAL 2001 TO BE IN THE \$6 TO \$6.5 MILLION RANGE. WILL APPLE ACCOMPLISH THIS?

No, probably not	
Too early to tell	52%
Yes, Apple is on its way to health	27%
	21%

JUST 1 INCH THICK AND WEIGHING A MERE 5.3 POUNDS, WILL YOU PURCHASE A TITANIUM POWERBOOK?

Yes, Absolutely	
I don't know yet	27%
No, I don't need one	44%
	29%

IS MACOS X APPLE'S MOST IMPORTANT TECHNICAL DEVELOPMENT IN A DECADE?

Yes, Absolutely	
Possibly but will depend on its sales	42%
No, Mac OS X is overated	37%
	21%

WHAT DO YOU THINK ABOUT APPLE'S iTUNES DIGITAL MUSIC MANAGEMENT FREE SOFTWARE?

Excellent, effective and easy to use	
It should have been introduced years ago	29%
Nothing special	57%
	14%





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ILLUSTRATORS OFTEN STRUGGLE BETWEEN INSPIRATION AND UTILITY, BUT AS ARTIST **ALEX OSTROY** POINTS OUT, THE ILLUSTRATIONS HE CREATES MUST REMAIN TETHERED TO SOMEONE ELSE'S WORDS. AN ILLUSTRATION, BY ITS VERY DEFINITION, SHOULD CLARIFY A TEXT. IF AN ILLUSTRATION IS TOO AMBIGUOUS, LOOSENED FROM ITS ACCOMPANYING WORDS, IT FAILS. IF IT'S TOO LITERAL, IT WILL NOT STIMULATE THE VIEWERS IMAGINATION.

Sitting in his Manhattan studio, Ostroy says, "Pictures, I think, resist dogmatic interpretation -- they don't want to make just one point. On the other hand, you can't put an illustration on your wall and sit there for three years like you're an early modernist trying to let **Picasso** sink in. You've got to be able to read an illustration right away. Finding that balance is something I'm always struggling to do."

# ALEX OSTROY

**Finding a Balance** BY SCOTT HICKEY

The power of an image lies in its ability to contradict and transcend a singular intention. Everyone's seen the kind of illustration where there's an eye over a house or man standing on a planet with cell phone. It's clear that this pictorial language grew out of *Surrealism*. The intent of the surrealist was to deconstruct meaning and create a language for our subconscious that's open to a multiplicity of meanings. Ironically, magazines have turned this idea around and created the notion of a literal pictogram, which can be very stifling for an illustrator. So instead of a picture being worth a thousand words, it's worth only six. You might as well let a headline do the job. Words are much better for rhetoric, but a great illustration can enhance every word of an article and buttress its meaning with ideas that are beyond the grasp of language."

## Coming of Age

Ostroy, 34, grew up in Los Angeles and began painting at a young age. He continued putting brush to canvas while attending *Rhode Island School of Design*, and graduated in 1989 at the cusp of a nascent computer revolution. He became an early digital image partisan.

"At the time digital images were a lot like early films --merely gimmicky side shows, *not real art*," Ostroy says: Critics were saying digital images would

never have the emotional impact of other mediums, digital images seemed cold and technical.

"When Pixar came along with *'Toy Story'* it helped open people's eyes to the possibilities of going digital. Fans of animation said they could never be sympathetic to a computer image. They were adamant about that. Then they saw *'Toy Story'* and it changed a lot of minds. It's the same old lesson you can learn over and over again: it's not the technology itself, but how it's utilized. When the piano was invented people thought it was too mechanical to make music with any real spiritual resonance until Bach proved those critics to be ridiculous. However as a medium 'Digital' is so flexible and amorphous I don't think it will ever have a singular identity. If anything it's erasing the barriers between previously inviolably separate disciplines."

Ostroy is quick to point out that the art community was even more leery of computers than animators. "When I switched from painting over to computers, I encountered a lot of bias: 'Oh, you quit art for computers.' Certainly in the early 90s there was more resistance to using computers in the fine art world than in the design world. That's part of what intrigued me about it."

**"THE POWER OF AN IMAGE LIES IN ITS  
ABILITY TO CONTRADICT AND  
TRANSCEND A SINGULAR INTENTION"**

Now that the world is waking up to what Ostroy has been doing for ten years, he feels vindicated by having helped dispel the critics who didn't believe that a computer image would ever have the emotional or intellectual content of other media.

#### **The Process**

While Macs remain his favorite, Ostroy has used an array of different computers over the years -- Macs, PCs, and an early SGI he borrowed \$20,000 to buy.

"The SGI software package I needed cost \$60,000, but you could always talk them down a bit on the price. At the time, I was doing some work for an advertising company. They needed an illustration for a 'Magic: The Gathering' ad. It used to be doing an ad was a lot more expensive, and they were going to spend a small fortune on the illustration. I said, 'Hey, if you guys buy this software for me, I'll do the job for free.' I didn't have too much of a portfolio at the time, but I conned them into it somehow. And that's how I got the software. Then I was off to the races."

What excites Ostroy these days is the promise that his life will be simplified when **Maya** -- the 3D design program he uses most often -- is released for **Mac OS X**. "It's a great program, but it's not for everyone. Someone said it's a lot like driving with three steering wheels, and I tend to agree," he says. "When Maya comes out for Mac OS X, I can throw all my other computers away."

Today's technology allows for limitless creative possibilities. "I'm not interested in realism, I'm interested in simulation. I'm trying to create









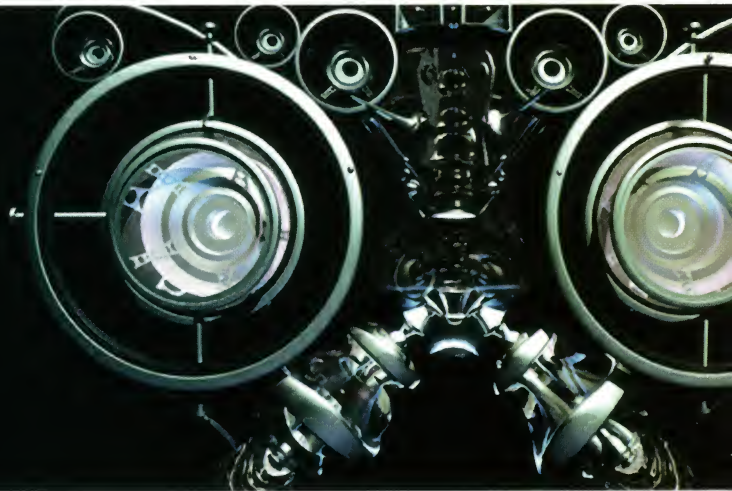


synthetic images that also look back at you. I love that like painting, computer art is a complete fiction - convincing someone into sharing a hallucination."

#### **New Worlds**

Ostroy says that whenever he sits at his computer with stylus and tablet, his intention is to create an empirical world. "The illustration of Billy Corgan I did for Rolling Stone is an attempt at a self-contained universe. I made a diorama and put him in it. I really like that idea of a play within a play." If the Corgan illustration were a play, it would have a hundred acts. When creating it, Ostroy used all one hundred layers that PhotoShop allows an image. "It's got my painting in it. It's got other people's paintings in it. The clouds are from a **Valesquez** painting that I've always loved. I put a little fly in the foreground that was one of the first computer things I rendered back in 1993. The whole thing is a collage, but it

"WHEN APPLE COMES OUT WITH  
MAC OS X, I CAN THROW ALL MY  
OTHER COMPUTERS AWAY."



doesn't look like one. I like seeing the DNA of all kinds of disparate images severed from their original context and woven together into a single picture."

Flipping through the layers of an image-in-progress, taking effects on and off, Ostroy explains why he's staying digital. "I think I would return to painting tomorrow if there was an opportunity to go backwards and forward like this. I miss the fact that I don't have any canvas on the wall when I'm done, every technological leap comes with a cost, but I would miss using a hundred layers and having the ability to pull out a single one and finding different things I can do to it. Once you experience the possibilities offered by technology it's difficult to go back. I imagine the Van Eyck brothers and other early painters felt the same way when they switched to oil paint." ❧

## Behind SonicBlue

KEN POTASHNER SPEAKS WITH MACDIRECTORY

### What took the steam out of the PC industry?

Opinion is divided: many feel the steam that empowered PC's was ultimately siphoned off by PDAs. There is another school of thought, however, that says home networking and internet access appliances will grow proportionate to the decline of PCs. If that is indeed the case, **SONICblue** is in a strong position to reap those rewards.

SONICblue, formerly known as **S3**, expects to generate about \$400 million in revenue in fiscal year 2001. In addition, SONICblue has partnerships with some the corporate elite: Dell, Nike, Apple, Compaq and Psion.

SONICblue has had a lot of name changes these past few months. First, there was the name change from S3 to SONICblue followed by the ticker symbol change on the day SONICblue debuted its IPO, from SIII to SBLU.

**Ken Potashner**, CEO of SONICblue, spoke to MacDirectory about the new direction of his company.

"S3 historically had its presence in the graphic chips side of things, then we became involved in high growth spaces. We sold our chip business to a Taiwanese company (VIA). With that change of direction, we wanted to make people think we were more than a graphics chip company."

Those mercurial name changes directly correspond to the dynamic restructuring of the company's corporate philosophy. SONICblue is one of the most dynamic companies to surface in some time. In a brief space of time, it has moved into the forefront of the digital music appliance market. SONICblue is also positioning itself as a leader in the digitally enabled home appliance market, including the automotive market.

### Automotive, you say?

"Our road map is smack dab in that arena," explained Mr. Potashner. "Autowise, we made an acquisition of Empeg. In that (acquisition), we got their design team."

Now, firmly ensconced in the SONICblue family, UK-based Empeg Ltd, the leader in automotive digital jukeboxes, will enjoy a greater availability. The two have worked together before. Earlier this year Empeg developed the software and firmware

package for the S3/Dell Rio Receiver.

This is a perfect marriage in a sense: SONICblue's sales expertise combined with Empeg's prolific design team should make waves next year.

But the question that is on a lot of minds is: How long can a small company remain at the top of the food chain? Despite RIO being the dominant brand in its category, SONY and other corporate giants have made overtures into the same spaces that SONICblue currently occupies.

Perhaps the bigger question: Is SONICblue fattening itself up to be bought by one of those giant corporations?

"I cannot comment on that," said Mr. Potashner. "I'll say this: We specifically have had interest in the company, that (interest) tends to come from consumer electronic companies and computer companies."



That may or may not explain why Dell's name has often been whispered in relation to acquisition offers to

SONICblue. No one expected the teaming when Dell formed a partnership with a new company like SONICblue, which operates in such a radical market.

When asked who approached whom, Mr. Potashner replied, "We approached Dell. The partnership with Dell, and even Nike, works well in terms of market share for us."

Will SONICblue strike out on its own against the big fish, and become an independent leader in the home networking and internet access products market, or will it become the powerful internet appliances arm for a company like Dell?

### And what does Mr. Potashner think of Apple?

"We like Apple," said Mr. Potashner, "We see a lot of our products that are complementary to the two companies."



## John Warnock Talk

ADOBE CEO STEPS DOWN  
BUT SPEAKS WITH MACDIRECTORY

AFTER AN IMPRESSIVE YEAR AT ADOBE SYSTEMS, **JOHN WARNOCK** DECIDED TO STEP DOWN AS CEO AND TAKE ON A NEW POSITION AS CHIEF TECHNOLOGY OFFICER AT ADOBE. THIS WAS A MONUMENTAL SURPRISE. WARNOCK, WHO MADE THE ANNOUNCEMENT HAS BEEN CEO SINCE ADOBE'S INCEPTION IN 1982. PRESIDENT **BRUCE CHIZEN** WAS NAMED TO REPLACE MR. WARNOCK AS CHIEF EXECUTIVE OFFICER.

ADOBE HAS LONG BEEN A FRIEND OF THE APPLE COMMUNITY. JOHN WARNOCK WAS ONE OF THIS YEAR'S MACDIRECTORY TEN. SOFTWARE FOR THE MACOS OF APPLE COMPUTER PRODUCED 35 PERCENT OF ADOBE'S REVENUE IN THE FOURTH QUARTER.

LAST MONTH, JOHN WARNOCK TOLD THE PRESS THAT HE WAS STEPPING DOWN BECAUSE IT WAS "A NATURAL TRANSITION." A WEEK LATER MACDIRECTORY RECEIVED THIS EMAIL RESPONSE FROM MR. WARNOCK ON HIS DECISION TO LEAVE:

**JOHN WARNOCK:** "WHILE I AM NOT RETIRING, I AM MOVING INTO THE NEWLY CREATED ROLE OF CHIEF TECHNOLOGY OFFICER FOR ADOBE TO LIGHTEN MY OPERATIONAL RESPONSIBILITIES AND FOCUS ON COMMUNICATION WITH THE TECHNICAL STAFF AND PRODUCT PEOPLE. THIS IS A ROLE I'VE BEEN INFORMALLY PERFORMING, BUT THE TITLE NOW MAKES IT OFFICIAL. IT WAS A GOOD TIME FOR ME TO MAKE A CHANGE, SINCE THE COMPANY IS IN A VERY STRONG POSITION AND BRUCE IS ALIGNED WITH ADOBE'S CULTURE AND HAS BEEN SUCCESSFULLY MANAGING ADOBE'S DAY TO DAY BUSINESS OVER THE PAST YEAR. THERE'S A SMALL WINDOW OF TIME TO MAKE SUCH A TRANSITION AND I'M VERY LUCKY THAT THIS COMES AT A POINT IN TIME WHEN THINGS ARE VERY POSITIVE."





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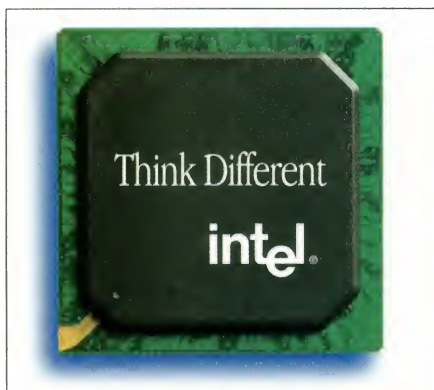
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## "Think Different" Intel?

MAC LEGEND "THINK DIFFERENT" CREATOR MOVES TO INTEL

Intel has hired Ken Segall, a legend in the Macintosh community, to work on their Pentium 4 ad campaign this Spring. Mr. Segall's new agency, **Messner Vetere Berger McNamee Schmetterer/Euro RSCG**, New York, will run the campaign.



Segall is most famous in the Mac community for his innovative "**Think Different**" campaign. He was hired by RSCG on November 13th and, by pure serendipity, MacDirectory interviewed him the next day.

**MacDirectory:** Simon Dumenco recently wrote in New York Magazine of your iMac ads: 'The effect is simultaneously erotic -- you won't find more worshipful camera work this side of a Herb Ritts celebrity photo shoot -- and guilelessly charming.' Is this the reaction you were aiming for?

**Ken Segall:** "Interesting! I hadn't seen that one before. I can't say that's exactly the reaction we were aiming for, but I'm glad our work had that effect on him. The truth is, we set out to show the iMacs exactly as they are: fresh, colorful, seductive and "different." And capturing those things on film or in print is an art in itself. A guiding principle for us has always been to keep things clean and uncomplicated, like iMac.

**MD:** You have been a fixture in the Apple constellation since 1997. What prompted you to decide for change?

**KS:** "Actually, my involvement with *Apple* and **Steve Jobs** is a bit deeper than that. I worked on Apple at *BBDO/LA* from 1986-88 (during **Sculley's** reign). I worked with Steve Jobs and *NeXT* for five years. And I joined *Chiat/Day* (for the fourth time, actually) when Steve returned to Apple and wanted to get the band together again.

"For personal reasons, I was unable to move to the West Coast to take this job. But, given my deep love for Apple and my huge respect for Steve, I wouldn't have missed this opportunity for the world. Apple was near death and needed help. So I struck a deal with *Chiat/Day* to become *Creative Director* on Apple and continue living in NY. Basically, I traveled every other week for presentations and ad production for the entire three years, averaging more than 150 days per year away from home. The rest of the time I worked with our creative teams (one in San Francisco, the other in LA) from my home office, collaborating electronically. (Hard to imagine a life without PDFs anymore.)

"I've never had a more fulfilling three years in my professional life, and it was immensely gratifying to play a part in Apple's resurgence. The only negative -- and ultimately my reason for leaving -- was the time I had to spend away from home."

**MD:** What position will you be taking at Messner Vetere Berger McNamee Schmetterer/Euro RSCG?

**KS:** "I've done only technology advertising since 1984 (IBM, Compaq, Digital, and more) and wouldn't be happy doing anything else. Once I decided it was time to devote more time to my family, the most important thing was to wait for the right job.

"MVBMS has given me a huge opportunity, and I'm really thrilled about it. I will be a Partner at the agency and Worldwide Creative Director on Intel. Now, the Mac purists (including me) may gasp at that. But believe me, after Apple, I would never be happy trying to move boxes for some cheesy PC company. Intel is an important, super-smart company in serious need of great advertising. Like Apple, it's a global challenge -- though on a much larger scale -- and the kind of thing that makes ad people eager to get up in the morning."

**MD:** Will you miss the LA-NY commute?

**KS:** "To be honest, between the action at home and the action in LA, my airplane time was the only quiet time I had all to myself. You'd be surprised how many Apple ads were born somewhere over Wyoming. However, given my family's needs, and after two million miles of sky time these past three years, the answer is: NO!!!"

## CELL PHONE SAFETY

FOR YEARS SCIENTISTS HAVE BEEN INVESTIGATING WHETHER ELECTROMAGNETIC FIELDS CAN CAUSE CANCER. STUDIES FOCUSING ON PEOPLE WHO LIVE UNDER HIGH-VOLTAGE POWER LINES OR NEAR



ELECTRIC SUBSTATIONS, HOWEVER, HAVE SO FAR FAILED TO FIND A DEFINITIVE LINK.

NOW, SIMILAR CONCERNS HAVE BEEN RAISED ABOUT CELL PHONES. SOME PEOPLE BELIEVE THAT HOLDING A CELL PHONE TO YOUR EAR FOR PROLONGED PERIODS CAUSES BRAIN CANCER.

MY ADVICE? USE A CELLULAR PHONE ONLY WHEN YOU NEED TO, NOT JUST FOR IDLE CHITCHAT. GET ONE WITH A HEADSET SO YOU CAN HOLD THE PHONE ITSELF AWAY FROM YOUR HEAD. ALTHOUGH THESE PRECAUTIONS MAY TURN OUT TO BE UNNECESSARY, THEY MAY MAKE YOU FEEL BETTER WHILE WE WAIT FOR SCIENTIFICALLY CONCLUSIVE STUDIES, WHICH WILL TAKE YEARS." SAID DR. NANCY SNEIDERMAN

WHILE VIRTUALLY ALL STUDIES SURVEYED ON THE WEB BY DOCTORS ARE SKEPTICAL ABOUT THE LINK BETWEEN CANCER AND CELL PHONES, A 1997 STUDY BY RAPICHO ET AL AND PUBLISHED IN *RADIATION RESEARCH*, SUGGESTED EXPOSURE TO RADIO FREQUENCY RADIATION INCREASED THE RATE OF LYMPHOMA IN MICE. AND THEN THERE IS THE PUBLIC CONCERN. DESPITE ALL THE EVIDENCE TO THE CONTRARY, STUDIES CONTINUALLY ADDRESS PUBLIC FEARS.

MEDICALLY, WE KNOW THAT THOSE MICROWAVES, LIKE THOSE EMITTED BY A MICROWAVE OVEN, ONLY IN MUCH SMALLER DOSES, HEAT HUMAN CELLS.

> ALL INTERVIEWS BY RON MWANGAGUHUNGA



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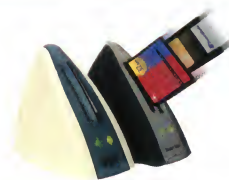
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*Simplifying The Digital Lifestyle™*



## Apple G4 Strategy

DOES THE APPLE G4 STRATEGY WORK?

Leftover inventory levels at the end of the last quarter suggest fiscal danger to analysts. The larger the inventory level, the worse the company's fiscal health. By the second week of December, Apple, with an astonishing eleven weeks of inventory left, was not considered by *Wall Street* to be in good shape. Of course, neither were Compaq nor Dell.

The general sluggishness among PC makers has been because of a slowdown which began in September and continues to this day eating away at hardware revenues. The economic slowdown, in general, has hit the PC sector first and, in many ways, hardest. **Michael Dell** said, in a call with analysts after disappointing fourth quarter results: *"I think that there will certainly be some consolidation and competitive shakeout."* That comment is generally seen now on reflection as the first shot fired in the PC Wars of 2001.

Not too long ago, Apple cut \$300 off the price of the two models of its embattled *Power Mac G4 Cube*. Available through the online store, the 500MHz *Cube* with 128MB of memory and a 30GB hard drive, as of press time, went from \$2,299 to \$1,999; and the other *Cube*, with 40GB is being sold at \$2,399, down from \$2,699. Earlier in the year, Gateway's CFO **John Todd** predicted the PC 'price war' was primarily caused by high inventory levels. At the time he said, *"clearly, we think in Q1 there will be an aggressive sort of price war. People are going to have to be aggressive to get the inventory out."* The high inventory levels throughout the industry are the chief cause of the PC rebate wars, but so is the large number of competitors on the field.

Apple CFO **Fred Anderson** noted in the Cupertino analyst meeting in January that The Cube is the product with the most remaining inventory. While their analysts call revealed that Apple had cut inventory down from the eleven weeks left in December to the near-normal five or so weeks, Apple had to sacrifice profits to gain market share.

"I think that there will certainly be some consolidation and competitive

shakeout," said **Michael Dell** in a conference call to analysts. Some companies, *Dell* is hinting, may not come out of the PC war intact. Bear Stern analyst Andrew Neff made an even bolder prediction:

*"This is an industry which needs consolidation. There's over-capacity, somebody has to leave. I think that two of the top 10 PC makers will exit the market this year."* The PC War heats up.

## AOL-Apple Merger?

Although the FCC would be loathe to allow this to happen, there is a possibility that AOL-Time Warner might train its acquisitive gaze towards Apple as a possible buy. Although the FCC, which gave AOL-Time Warner a tough time, would initially turn against such a plan, the FCC has a new chairman. That new chairman is a Republican **Michael K. Powell**, the son of **Colin Powell**.

There would be a lot of complementary synergies between the two companies. For example, AOL-TW and Apple have worked extensively on development of Instant Messaging in the Summer of 1999. The two companies have a good working relationship. Apple also brings to the deal--should the deal ever happen and be cleared by the FCC--a very loyal amount of Mac enthusiast customer base to add to AOL's 27 million subscribers.

In addition, Apple has a reputation for producing high quality machines, which is a prestige factor for AOL-TW. Finally, QuickTime: Apple's complete technology for handling video, sound, and animation, would give AOL-TW their missing component.

Against the deal are a few major factors. The first factor against an Apple/AOL-TW merger would be the FCC. Despite the fact that the FCC is a very pro-business Republican organization now, an AOL-Apple would have to give up their investment in rival ISP EarthLink as well as their seat on the Board of Directors. The bright side? If anyone could bring up marketshare for Apple, it would be **Steve Case** and AOL's solid customer numbers.



## Apple in Brazil?

APPLE NOT BUILDING IN BRAZIL

ZDNET, A RESPECTED NEWS SOURCE, RAN A SPECIAL STORY BY ROGERIO TAIRA OF MACNEWS BRAZIL. MOST MAC NEWS SITES, INCLUDING MACDIRECTORY, REPORTED ON THE STORY USING ZDNET'S FACTS UNCHALLENGED. IN THE STORY, ROGERIO TAIRA SAYS:

"THE INTERIM CHIEF OF APPLE COMPUTER'S BRAZIL OPERATION HAS CONFIRMED THAT THE MAC MAKER IS GOING AHEAD WITH A MANUFACTURING PLANT IN THE COUNTRY."

MARINALDO AZEVEDO IS THE INTERIM GENERAL MANAGER AND CFO OF APPLE BRAZIL. BY DECEMBER 21ST, APPLE HAD NOT ISSUED ANY PRESS RELEASES TOTING THIS PATH-BREAKING MOVE. BRAZIL, ONE OF THE WORLD'S LARGEST EMERGING ECONOMIES, WOULD BE A SERIOUS PLAY FOR APPLE, ONE THAT INVESTORS AND THE GENERAL PUBLIC WOULD WANT TO KNOW ABOUT. SECRETIVE APPLE WOULD PUBLICIZE A CORPORATE MOVE OF THIS MAGNITUDE. IN ADDITION, IN THESE TIMES OF DECREASED REVENUES, WITH APPLE OSTENSIBLY MAKING A MOVE OF THAT MAGNITUDE, A PRESS RELEASE JUSTIFYING THE MOVE WOULD BE STANDARD PROCEDURE. AND YET NO PRESS RELEASE.

WHEN MACDIRECTORY ASKED APPLE WHETHER THE REPORT FROM MACNEWS BRAZIL WAS A MISQUOTE, FERNANDO DEL GRANADO, MARKETING MANAGER OF APPLE LATIN AMERICA RESPONDED:

"YES, INDEED, MARINALDO AZEVEDO OF APPLE BRAZIL WAS MISQUOTED THIS WEEK IN THE PUBLISHED ARTICLE ABOUT AN ALLEGED MANUFACTURING PLANT IN DEVELOPMENT. MR. AZEVEDO NEVER MADE SUCH CLAIMS IN HIS RESPONSES TO QUESTIONS POSED BY MACNEWS BRAZIL.



# Drive home a classic.



**Hard Disk ToolKit® 4.0** is one upgrade with a lot of moxie. Don't pass it by!

This new version of FWB's all-time classic disk utility includes full support for **MacOS 9** and all the latest machines from Apple, including the new iMacDV and iBook. So don't enjoy that new **G4** smell without Hard Disk ToolKit under the hood. Version 4.0 incorporates cutting-edge technology with the utmost reliability and rock-solid stability you are used to receiving from FWB.

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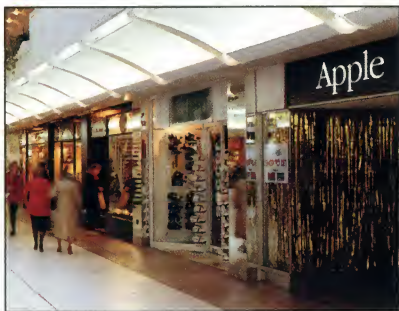


## MAC COMMUNITY ON THE APPLE RETAIL STORE

ALTHOUGH APPLE PR STEADFASTLY REFUSES TO DISCUSS THE MATTER, THE COMPANY IS PLANNING TO FOLLOW THE GATEWAY MODEL--AT LEAST ON A SMALL SCALE--AND CREATE APPLE STORES IN PALO ALTO IN CALIFORNIA AND, IF THE RUMORS ARE TRUE, IN CHICAGO AS WELL.

Perhaps because of the silence from corporate headquarters, rumors are flying as to whether or not this is a limited scale operation or whether Apple is planning on launching a whole chain of retail stores. Apple currently has a single store at their Cupertino campus. Of course the largest question surrounding the rumors is how will this affect Apple resellers?

Palo Alto planning official Amy French told Reuters that Apple applied for approval "to modify a downtown building into a 6,581 square foot retail store." Ms. French also indicated that the store could open in April.



This is a thorny issue among the Mac community as Apple resellers will more than likely feel the pinch, should Apple decide to follow the Gateway model. The Gateway country store approach has proved moderately successful. But for Apple to pull this off, the execution must be flawless. The Reuter's article mentions the obvious differences between Gateway and Apple. JP Morgan analyst Daniel Kunstler said: "Apple is sort of the BMW or Mercedes."

Indeed. Apple cannot skimp on the execution of the stores. The Apple brand would suffer great damage if the stores were 'low-rent.' Might this humble author suggest elegant and cool modern architecture? Of course, whatever the choice, the architect would have to be Mac-based. Perhaps the folks at Architosh.com might be willing to design the store?

The Reuter's article came up with a workable solution. Perhaps Apple could team up with 'top resellers.' This way Apple could decrease their workload, partner up with resellers, and gain market share.

eMac Daily ([letters@macdirectory.com](mailto:letters@macdirectory.com)) solicited comments from members of the Mac community on what they thought of the stores.

"I think it will directly compete with catalog resellers (*MacZone, MacWarehouse, etc*), and larger retailers like Circuit City, but I also think that having an Apple store will help boost sales. I'm really don't think that the impact will be all that great as there are only two being planned.

"I would want to see a Mac at work in an Apple friendly environment and talk with people who are a dedicated Mac sales force. My own experience is that the sales force at the mega stores don't really know what they're talking about. They have too many conflicts to sell any and all other computers. It doesn't seem to be hurting Gateway. Apple needs to establish a larger public presence and this is a good start. I'd like to see an Apple store in a major city in every state." **Charles Cusumano > [mac.man2@gte.net](mailto:mac.man2@gte.net)**

"I do not think that it is appropriate for Apple to compete with their own dealer base either on-line or via bricks and mortar. However, that being said, should they choose to set up shop in our neck of the woods, I would not fear the competition. Apple would sell their own products almost exclusively. However, as a dealer, we are in a position to recommend all sorts of non-Apple branded peripherals and components. Our years of experience and the relationships that we have built with our clients would persevere. The only thing that could seriously disrupt this scenario would be if Apple engaged in predatory pricing practices. Although they have not proven themselves to be saints in such matters, I would expect that the pricing would be in line with the already low, but barely tolerable, Apple Store prices." **J. Curtis Joynt > MyMacDealer**

"If we are talking about stores owned by Apple, I am infuriated. If Apple is going to get into the retail as they have with their e-store, they should just do the honorable thing and buy out all those retailers who acted as their front line fighters when the product was not doing so well at the till.

"These are the people who put their faith in the product and waited through years of bad times only to get the shaft from the company they helped. Apple should stick to manufacturing and marketing and help their faithful retailers succeed." **Mickey > No, I am not a retailer**

## APPLE'S AIM TO BE THE DIGITAL HUB



WALK INTO ANY OF THE TOP WEB DESIGN FIRMS, SWISHY MEDIA OUTLETS OR FAST RISING INTERNET STARTUPS AND ONE FACTOR STANDS OUT: APPLE.

APPLE HAS ALWAYS HAD A STRANGLEHOLD OVER THE TASTEMAKERS. IN FACT, IF ONE PREDICTION COULD BE MADE ABOUT THE DIGITAL HUB, IT WOULD BE THAT IN THE NEXT TEN YEARS APPLE WILL CONTINUE TO BE THEIR DIGITAL HUB. NOW STEVE JOBS IS PLANNING ON EXPANDING THAT BRAND LOYALTY TO THE POPULATION AT LARGE.

IN STEVE JOBS' UPLIFTING KEYNOTE AT MACWORLD EXPO, HE UNVEILED A VERY AMBITIOUS GOAL. BUCKING THE PC GLOOM AND DOOM TREND, JOBS ANNOUNCED THAT HE WANTS APPLE TO BE THE 'DIGITAL HUB,' OR ENTRANCE POINT INTO THE DIGITAL UNIVERSE. JOBS' OPTIMISTIC ADDRESS FOCUSED NOT ON THE SLOWDOWN IN PC SALES, BUT ON THE 'EVOLUTION' OF THE ROLE OF THE PC IN A TECHNOLOGICALLY CENTERED UNIVERSE. THE KEYNOTE SEEMED TO RECAST THE PC CRISIS AS A CROSSROADS IN WHICH THE OLD ROLE OF THE PC IS BEING REEVALUATED.

STEVE JOBS' FIRST MANEUVER IN ACCOMPLISHING THIS AMBITIOUS TASK WAS UNVEILING MULTIMEDIA APPLICATIONS SUCH AS **iTunes** AND **iDVD**. THE FOCUS ON DIGITAL MUSIC, A PERENNIAL FAVORITE IN THE DIGITAL LANDSCAPE, IS APPLE'S STRATEGIC FIRST VOLLEY IN BECOMING THE ULTIMATE DIGITAL HUB. MAC MUSICIANS HAVE LONG BEMOANED THE LACK OF ATTENTION APPLE HAS PAID TO THEM.

STEVE JOBS ACKNOWLEDGED THAT APPLE HAS COME LATE TO THE DIGITAL MUSIC PARTY. **iTunes**, WHICH RUNS ON MAC OS 9, INCLUDES MP3 ENCODING, CD BURNING, AND INTEGRATED MP3 PLAYER SUPPORT, AMONG OTHER FEATURES. **iTunes** WILL BE FREE. THE PERVERSIVE NATURE OF MUSIC AND THE RELATIVE EASE OF **iTunes** COMPARED TO, SAY, WINDOWS MEDIA PLAYER, IS ALL PART OF THIS STRATEGY. THE FORTUNES OF APPLE MAY WELL REST IN HOW PERVERSIVE **iTunes** AND **iDVD** ULTIMATELY BECOME.



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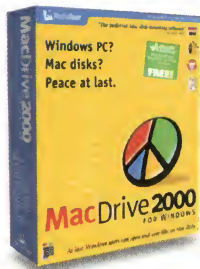
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## Jobs & the Press

WHY WON'T JOBS RESPOND TO THE MAC PRESS?

**Apple Computer** is famously semi-friendly to its loyal customers; but the company is equally unhelpful to the Mac-friendly press. In fact, Apple's misdemeanors surrounding the company's treatment of the press are astounding, considering



the amount of positive press **Steve Jobs** receives. One might come away thinking that there is some sort of co-dependent relationship in which Jobs, who does not talk to Mac-only journals, is regarded as the golden boy.

The scandal surrounding **Alan Deutschman's** biography of Jobs is testament to that behavior. Deutschman, an editor at **Vanity Fair**, ran into mysterious problems clearing the cover picture for his book. In an interview with Salonmag.com, Mr. Deutschman described his problems this way:

*"What happened is **Random House** licensed the rights to the photo from the Corbis Sygma photo agency, the usual procedure for doing a book jacket. And then, late in the production process, the photographer called Random House and said that 'My photo agency doesn't have the right to sell my photo.' Which seems bizarre, to say the least. For one thing, why wouldn't a photographer want to earn even more money for a picture he took more than two years ago?"*

*"I strongly suspect that Steve Jobs put the photographer (**Moshe Brakha**, a friend of Steve Jobs) up to doing this. Which photographer wouldn't want someone like Steve Jobs to owe them a big favor? That could be much more valuable than the royalty payments for the photograph. So Random House decided to design and print a different cover."*

At the height of the controversy, MacDirectory emailed Moshe Brakha. This was his response:

"Sorry but we are unavailable for comment."

**Alan Deutschman** gives a convincing if not conclusive argument that Mr. Jobs also was involved in killing **Vanity Fair's** excerpt of the book, which ultimately appeared in **Talk**.

## iTunes from Apple

A CLOSER LOOK AT ITUNES

ITUNES, THE FREE DIGITAL MUSIC PROGRAM FROM APPLE, TURNS THE MAC INTO A VERSATILE DIGITAL JUKEBOX CAPABLE OF CONVERTING CDs INTO MP3 FILES, AND BURNING THOSE MP3S ONTO BLANK CDs IF YOU HAVE A CD-RW DRIVE.

SO WHAT? ANYONE WITH A CD BURNER HOOKED UP AS A PERIPHERAL TO THEIR MAC CAN DO THE SAME THING USING **Toast**, THE SOFTWARE THAT COMES WITH MOST BURNERS. HOWEVER, ITUNES CAPABILITY EXTENDS BEYOND SIMPLE TOASTING.

THE SOFTWARE SIGNALS APPLES ENTRANCE - SOME WOULD SAY BELATED - INTO THE DIGITAL MUSIC ARENA. NEVERTHELESS, THE TIMING DOVETAILS NICELY WITH THE RELEASE OF A NEW CROP OF G4S THAT COME STANDARD WITH CD-RW DRIVES.

WHAT IS LIKELY TO MAKE ITUNES STANDARD ISSUE FOR DIGITAL AUDIOPHILES IS ITS ABILITY TO CENTRALIZE A MUSIC LIBRARY ON YOUR MAC. THE PROGRAMS STRAIGHTFORWARD INTERFACE EFFICIENTLY ORGANIZES SONG FILES AND GIVES QUICK ACCESS TO THEM.

POP A CD IN AND ITUNES DISPLAYS THE SONGS TITLE, RUNNING TIME, ARTIST, GENRE AND MORE. IF ITUNES CANNOT READ THAT INFORMATION FROM THE DISC, WHICH DOES HAPPEN, IT IS POSSIBLE TO MANUALLY ENTER THE INFORMATION. MOST NEW CDs, HOWEVER, COME ENCODED WITH THIS INFORMATION.

ITUNES MAKES CREATING A MIX CD AS EASY AS DRAGGING AND DROPPING SONGS (MP3 FILES) INTO A PLAYLIST. ADJUST THE RUNNING ORDER AND WITH ONE CLICK YOU'RE BURNING A CUSTOMIZED COMPILATION. YOU CAN ALSO MAKE A PLAYLIST TO SAVE TO A PORTABLE MP3 PLAYER. OR YOU CAN BUILD A PLAYLIST SIMPLY FOR LISTENING AND NOT BURNING.

ITUNES ALSO DOUBLES AS A DIGITAL RADIO TUNER OFFERING HUNDREDS OF STATIONS RANGING FROM ECLECTIC COLLEGE STATIONS TO ONE STATION CALLED **BIKER BAR RADIO**. YOU CANT USE THE EXCUSE THAT THERE IS NOTHING ON THE RADIO ANY MORE.

ONE OF ITUNES FINAL FEATURES, THE VISUALIZER, TURNS THE MONITOR INTO A LIGHT SHOW THAT WOULD MAKE ANY POTHEADS SQUINTY EYES GLAZE OVER IN ECSTASY. INTENSE SHEETS OF COLOR CASCADE ACROSS THE SCREEN AS CONTRASTING LINES TWIST AND PULSE WITH THE BEAT. THE PUPIL DILATING TOUCH PUTS ITUNES OVER THE TOP.

## Apple News 24/7


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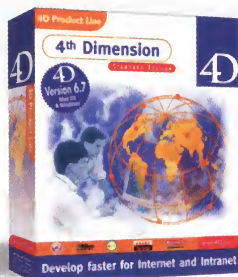
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## J.u.m.p to the Rescue

TECHNICAL SUPPORT FOR YOUR MACINTOSH

WHEN A BUSINESS EXPERIENCES TECHNICAL TROUBLE WITH ITS MACINTOSH COMPUTERS, A SIMPLE CALL TO THE INFORMATION TECHNOLOGY DEPARTMENT ISN'T ALWAYS THE BEST SOLUTION.

MANY IT DEPARTMENTS DON'T HAVE A HISTORY SERVICING MACINTOSHES TO DRAW FROM, AND MAY NOT BE RIGHT FOR THE JOB. SOMETIMES, THEY CAN EVEN MAKE A PROBLEM WORSE, SAYS **JEFF GRABER**, PRESIDENT OF J.U.M.P!, A MACINTOSH SUPPORT COMPANY LOCATED IN MANHATTAN.

IF A BUSINESS HAS A PROBLEM WITH A SINGLE MACINTOSH COMPUTER OR A NETWORK OF MACS, J.U.M.P! WILL DISPATCH A TECHNICIAN - KNOWN AS A JUMPER! - TO FIX THE PROBLEM. J.U.M.P!, GRABER SAYS, OFFERS AN AFFORDABLE WAY FOR COMPANIES TO MAINTAIN THEIR MACS.

"WE MAKE SENSE FOR A LOT OF COMPANIES BECAUSE WE'RE CHEAPER THAN HAVING AN INTERNAL INFORMATION TECHNOLOGY DEPARTMENT. WE'RE A GOOD IDEA EVEN IF A COMPANY HAS AN IT DEPARTMENT BECAUSE MOST IT DEPARTMENTS TEND TO IGNORE MACS. WHEN A PROBLEM COMES UP, THEY DON'T KNOW WHAT TO DO. WE DO BECAUSE WE'RE MAC PEOPLE WORKING ON MAC PROBLEMS."

CLIENTS OF J.U.M.P!'S **POWER SUPPORT PLAN** PAY \$145 AN HOUR WITH A ONE-HOUR MINIMUM FOR A JUMPER! VISIT. THAT PLAN ALSO INCLUDES UNLIMITED PHONE SERVICE.

WITH FIVE YEARS EXPERIENCE HELPING BUSINESSES WITH THEIR MACS, J.U.M.P!'S TECHNICIANS HAVE SEEN AND TREATED A WIDE ARRAY OF COMPUTER SOFTWARE, HARDWARE AND NETWORK PROBLEMS. EXPERIENCE ALLOWS J.U.M.P! TO QUICKLY DIAGNOSE AND FIX A SICK MAC.

"WE HAVE A DATABASE THAT TRACKS ALL THE PROBLEMS WE ENCOUNTER," GRABER SAYS. "WE KNOW WHAT PROBLEMS ARE PREVALENT WITH CERTAIN KINDS OF COMPUTERS AND USE THAT KNOWLEDGE TO OUR ADVANTAGE."

LAST YEAR, J.U.M.P! GREW 37 PERCENT, AND THE COMPANY CONTINUES ITS GROWTH. J.U.M.P!, GRABER SAYS, HAS TAPPED INTO AN UNDER SERVED MARKET. THIS YEAR, J.U.M.P! IS PLANNING TO OFFER BUSINESSES "MAC IT IN A BOX,"

"SIMPLY PUT, IT'S A FULLY OUTSOURCED IT SOLUTION FOR MACS, THAT ELIMINATES THE NEED FOR AN INTERNAL IT DEPARTMENT, REGARDLESS OF YOUR COMPANY'S SIZE. WE HAVE DEVELOPED PROPRIETARY TOOLS AND METHODS THAT WILL RESPOND BETTER THAN ANY CURRENT INTERNAL IT FOR MACS."

FOR MORE INFORMATION, CHECK OUT THE J.U.M.P! WEB SITE: [HTTP://JUMPSPACE.COM/](http://JUMPSPACE.COM/)

## Apple ER

EMERGENCY SERVICE FOR YOUR MAC

WALK INTO TEKSERVE IN MANHATTAN AND ENTER THE WAITING ROOM OF AN APPLE ER.

A grey-haired professional holds an ailing iBook on his lap, a young woman frets over her fractured hard drive while a proud new Mac Daddy smiles wheeling his new G4 Tower and Cinema display monitor to the elevator.

Grab a number, a 10-cent Coke from the old-fashioned soda machine and have a seat. A Mac Classic hanging on the wall has been converted to show what number is being served. The waiting room is an island surrounded by an enormous inventory or parts.

### The Doctor Is In

The seasoned diagnosticians at Tekserve sit face to face with customers and discuss the symptoms. They've seen most technological maladies, and have a history of accurately diagnosing what ails their customers' Apples, says Tekserve co-founder David Lerner.

"Because of the way we're set up, we have 10 PowerBook technicians working around a common table. They all talk to each other all day long. They work on so many machines, they quickly learn what the common problems are. If someone hits something unexpected, usually someone else will be familiar with it. There is a lot of sharing of information."

If Tekserve can cure a computer quickly - within a half-hour - they'll do on the spot in an open repair bay so you can watch. If they can't fix it right away, Lerner says they'll give you a free estimate.

"Using our knowledge and experience, we'll do a 10-minute diagnostic and be 80 percent sure that it's the right estimate. Obviously, if we get into it and find out we're wrong, we'll tell you. We try hard not to charge if we're not providing a service. If we can't fix it, we don't charge money."

The company, founded in 1990 by Lerner and

Dick Demenus, has made its reputation by specializing in the repair, upgrade and custom configuration of Apples. Before opening Tekserve, Lerner and Demenus were Apple-loving electronic designers fed up with expensive repairs. They learned how to fix their own computers - Mac 128's: the original Macintosh computer? and started fixing other people's computer problems.

As the world becomes more computer-dependent, quick, quality repairs are in demand. Apple-users who didn't buy the Apple Care Service Agreement and experience problems after their 90-days of free phone support has expired know how frustrating it can be to get technical support from Apple.

"After three months, even though you have a valid warranty problem, you have to agree to pay Apple \$49 for a support call. Once they agree that it is a hardware problem, they don't charge you the \$49, but most people aren't willing to take it that far. Instead, people come to us. We give free estimates on everything, and if we can, we'll fix it right away."

With more than a decade of experience, Tekserve has earned the right to call itself, "The old reliable Mac service shop."

Watching computer technology becomes more disposable and less cost-effective to repair, Lerner says Tekserve expanded from service only into sales of Apple products.

"Now a computer costs \$1,600 instead of \$5,000, and people are less likely to do a \$500 repair. Some repairs don't make sense anymore. We're still focused on carry-in service, but about five years ago it made sense for us to start selling what we service too. Unlike a lot of places, we stock a lot of stuff and we can usually deliver a custom-configured computer the same day."







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**JILSANDER**





# Magali Amadei

IMAGES BY ANTHONY SAINT JAMES  
WORDS BY SCOTT HICKEY

NESTLED BENEATH THE SWEEPING ARCH OF MAGALI AMADEI'S LONG EYEBROWS, HER HAZEL EYES SPARK WITH A JOY FOR LIFE THAT HAS REPLACED THE PAIN AND SHAME THE 26-YEAR-OLD FRENCH MODEL AND MACINTOSH LOVER USED TO FEEL DURING HER FIGHT AGAINST BULIMIA.

To understate the obvious, Amadei is easy on the eyes. Her looks have brought her success as a model appearing in *Vogue*, *Elle*, *Marie Claire*, *Cosmopolitan* and *Harper's Bazaar*. It's hard to understand the insecurities she felt about her body, which she says were the cause of her eating disorder. Then again, eating disorders aren't supposed to be logical.

After bottoming out, she got help. Amadei worked hard to conquer those insecurities, which sometimes return to haunt her. Now, she feels she's gained the upper hand on her demon.

## Life Lessons

Basking in the sunshine on her balcony in L.A., Amadei is quick to laugh at the world and herself.

Like a child who has too much sugar, she talks in an excited rush. Her words, imbued with a sultry French accent, tumble from her lips as she talks about her technology fetish, her burgeoning acting career and her work to educate young people about eating disorders.

One thing the hard times taught her was to appreciate and respect life. She's adopted an appropriate motto to remind her that every day is precious - "I want to do one thing a day that scares me."



Recently, she's been getting her daily thrill on the Los Angeles highways in a rented Camry. Amadei recently earned her driver's license, and the roads haven't been safe since.

"I perspire so much, I have to turn the vents on my hands. I didn't realize what an adrenaline rush it was to drive."

But what is a top-notch model doing driving around in sensible car like a Camry?

"I figure there are so many of them out there, no one will want to steal it. Plus, I'm still learning how to drive, and I don't want to buy a nicer car until I feel more confident. I would hate to get a really nice car just to put a dent in it."

#### **Techno Fetish**

Lately, Amadei has been consumed with a vexing passion: gadgets. She loves to buy new toys, but sometimes playing with them isn't easy.

"I had this genius idea - at least I thought it was a genius idea - 'I'm in the fashion industry, I'll play around with images.' So I went out and bought Photoshop, a scanner and a printer for my iMac. But to tell you the truth, I don't even know how to turn my scanner on. Frankly, the only thing I've been able to do print is words. It's a great printer though," she laughs.

"It's frustrating. I haven't been in my office in six months because I completely deny the fact that I have all these things I can't use. I'm such a loser."

She hasn't fared much better with the Personal Data Assistants (PDA's) she owns.

"I started out with a Psion, but the first one I bought got a virus. Those little things are fragile. Then I bought a second one, and it got a virus too. I like to call it a virus, because that explains what it is. Really I don't know what happened. That depressed me, because I had all my information in there.

"Finally, I bought a Palm Pilot. A friend of mine bought one at the same time and tried to download all his information to his computer, but wound up erasing everything. I looked at him; I looked at my Palm Pilot still in the box; I looked at him again and said, 'I'll just stick to paper for a while.' That's what technology has done for me - it has brought me back to pen and paper."

Amadei chose to use Apple for its well-known graphic ability, but admits a second, less-PC, reason with a





"I WANT TO DO ONE THING A DAY THAT SCARES ME"



"THE COOL PEOPLE I KNEW LIVING ARTISTIC LIVES WERE USING MACS. I FIGURED IF I BOUGHT A MACINTOSH, I WOULD BE MORE ARTISTIC. SO FAR, IT'S NOT WORKING OUT."





mischievous giggle. "Most of my friends who used PCs were nerdy people with glasses. The cool people I knew living artistic lives were using Macs. I figured if I bought a Mac, I would be more artistic. So far, it's not working out."

Next on her list of must have toys is a G3 Powerbook.

"I have to have a DVD player, and I want one I can take with me, that's why I want a Powerbook. Plus, they look great."

#### **Acting Savvy**

Amadei's continuing struggle to master technology, however, didn't effect her performance as a computer consultant in the HBO pilot, "The Mind of a Married Man." It proves, she jokes, how good an actress she is.

"I'm a computer consultant, but that's only my cover. I'm really a prostitute that goes into computer offices and fixes 'hard drives' and 'floppy disks.' You can imagine the other ways they use to describe my work. It was a lot of fun doing the pilot, and I hope it gets picked up."

Frequent comparisons to Sophia Loren and Ava Gardner planted the acting seeds that started Amadei thinking of adding acting to her resume along with modeling. She took acting lessons, and wound up starring in two New York plays - "A Matter of Dispute" and "Fiesta Wear."

That exposure led to a cameo appearance in "The Wedding Planner," which stars Matthew McConaughey and Jennifer Lopez and was released in





January. Fans of Amadei's curvy Mediterranean figure were surprised to see the model playing a woman who is seven-months pregnant.

"I feel for pregnant women more than I ever have before. After 12 hours in the suit that made me look pregnant, my back was hurting. I had to get used to not being able to turn right or left or pick things up. It certainly calmed my hormones for a while. I thought about keeping the suit and showing up at a photo shoot wearing it. I can just imagine the look on their faces. 'Oh yeah guys, did I forget to tell you, I'm pregnant. Is that a problem?'"

impressionable about their body image and susceptible to eating disorders. She toured several high schools telling students to learn from her mistakes.

Television, movies and the fashion industry continue to pump out images of beautiful bodies. Most people will never look like a model, but that doesn't stop a large segment of the population from trying fad diets and get-thin-quick schemes. Corporations look at people who feel fat like cash cows ready for the milking.



### **Dangerous Fantasy**

Amadei's effervescent sense of humor, however, masks her painful bout with bulimia. For seven years she wrestled with the eating disorder. At her worst, she binged and purged up to seven times a day. That's when she realized things were out of control.

She survived the eating disorder, but many of her teeth did not. A side effect of bulimia is that stomach acid weakens and destroys the teeth. Amadei can thank her dentist for restoring her pearly white smile with the help of 11 caps, seven root canals and two bridges.

Today, Amadei is outspoken about the dangers of the disease. To raise awareness, she told her story on television shows - 20/20, Entertainment Tonight, Good Morning America - and in several newspapers and magazines.

Amadei was 19 when she first began bingeing and purging. It was important for her to reach out to young adults who are

"It's worth a lot of money to break down people's self-esteem. People shop more. They buy more cosmetics. They go on more diets and have more plastic surgery done.

"People need to consider this about the fashion industry - what you're seeing is a fantasy. The photos are retouched. It takes forever to do hair. People spend hours on the make up. What they see is not reality. Corporations have a financial interest in making people believe that what they look like is who you are. It's rubbish."

The fashion industry, usually quiet about eating disorders, has been supportive of Amadei, which surprised and pleased her.

"There is a conscience that arises when people talk about things. For example, my modeling agency put up information on their Web site about eating disorders. Other modeling agencies have done benefits to raise money to fight eating disorders. As a result, it has raised awareness and given people courage to talk about what they're going through. I'm happy that I could be a part of that." ❧



WORDS BY TRACEY TANNENBAUM > IMAGE BY DIGITAL VISION

### Digital Vision goes X-Rated ? Bares its Bones in its latest collection

LOOKING FOR DIFFERENT STOCK PHOTOGRAPHY FOR YOUR NEXT DESIGN PROJECT? DIGITAL VISION, ESTABLISHED IN LONDON ENGLAND, PROVIDES A VARIETY OF ROYALTY FREE STOCK IMAGES INCLUDING THE LATEST X-RATED SERIES.

**Maria Teijeiro**, the creative director on this project, is enthusiastic about the *X-Rated* project which she calls - "the biggest headache and the most creative project she's done to date." The concept, which was developed by Digital Vision's own in-house creative department, was conceived as an alternative to the mundane stock shots of skeletons. "*All of these types of images in the marketplace were shot straight-on with little sense of composition or humor*," Teijeiro explains. "We wanted to bring to the marketplace something truly original - images of skeletons which are well-composed, quirky and useful for a variety of lifestyle, sport and business projects."

To start the X-Rated project, Teijeiro first had to find a contact that would allow her to use an X-ray machine. Then she started x-raying the 'props' needed for the collection - including a rubber covered skeleton model, a dog's carcass and doll-size replicas of beds, toasters and more. Teijeiro's own four-inch stiletto shoes and handbag also made it under the X-ray machine's glare.

The next step was to take the x-rayed images and scan them. That duty fell on Ian Cuming, Digital Vision's senior artist and Teijeiro's partner for this title. "As you can guess, you can't get a full six skeleton under an x-ray machine," Cuming says. "To achieve the look of a complete skeleton, we had to put the skeleton in the machine, section by section, and then figure out a way of putting the pieces together. To do this, we scanned the

x-ray film to allow us to work in a digital format, and using Photoshop, we carefully cropped the images together to look like a full realistic skeleton. But, this was just the start as images needed to be cleaned up and color adjusted. From a technical standpoint, I used lots of transforming, equalized all the textures and layered, layered, layered. I think I used almost every aspect of the Photoshop program."

Teijeiro's former career as a dancer came in handy in the next stage of the project, which required the skeletal images to be adjusted to reflect natural movement. "I would say to Ian 'That skeleton's arm doesn't look right,' and then I would try to duplicate the angle using my own body. When it didn't work, I knew we would have to go back to the computer."

This part of the process proved to be the most time consuming, but made the skeleton images look more fluid.

As the images were nearly completed, Teijeiro admits becoming fixated on finding new things to put under the x-ray machine.

"I would find myself not listening to people as they spoke. Instead, I would look at the pens on their desks, or their mobile phone and think, 'Hmmm, I wonder what that would look like x-rayed.' I have a feeling this is going to be a lifelong obsession."

*The X-rated series CD, which retails for \$399, can be viewed and images purchased on Digital Vision's website, [www.digitalvisiononline.com](http://www.digitalvisiononline.com) or by calling their offices at (888) 381 9445. ❧*



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## The Need for Speed

# DSL

WORDS BY RIC GETTER > IMAGES BY JOSEPH J SMITH

### The Need for Speed > Going DSL

WITH A MOVE TO WORKING OUT OF A HOME OFFICE, THE NEED FOR HIGH SPEED INTERNET ACCESS WENT FROM A TEMPTATION TO A NECESSITY. It was nice to have a solid, economic justification for the upgrade, but with my friends and associates equally divided between being satisfied users and tellers of horror stories, the step became somewhat intimidating. However, I was not a complete newbie. I once had to connect our office network to an ISDN line. But I was still starting out knowing as little about DSL as I did about ISDN back then.

### Why DSL?

The choice to go with *DSL* was essentially already made for me. But even with other options, I would have found it the best option. *Cable modems* offer phenomenal download speed as long as not too many of your neighbors are online at the same time. But the thought of subscribing to a service that could suffer from decreasing performance as its popularity increased was not particularly tempting. On top of that, I was already familiar with the quality of customer service provided by our cable TV company. That was enough to discourage me right there. My home was within range of a DSL-equipped central office, so there was no reason to resort to the more costly *ISDN* hookup.

The first step I took was figuring out what I needed. There were three computers - my *G3*, my *PC* and my wife's *iBook* - that needed to go online. We would need a modest amount of web space and a couple of mailboxes. For each system to be online at the same time, I would need to have more than one *IP address*. My work involves some

traveling, so I would also need local dial-up access when I am out of town. I then, started checking out the providers who seemed to have the best deals and ran into my first piece of discouraging news.

The setup I was looking for was considered a "small home office" (*sometimes called a SOHO*) and the bargain *DSL* rates were all targeted at single-computer setups. Their *SOHO* services that included multiple mail mailboxes and *IP addresses* offered far more than what I needed and were priced way out of my budget. The packages were useful if you happened to fit in the market that the services were targeting, but it wasn't a good match for me. They understood my situation, but weren't able to offer any alternatives.

I regrouped and did some more research and found that there are some low-cost alternatives that big providers don't commonly talk about. The trick, I discovered, was to buy a *router*. DSL comes into your house as a phone line - same wall jack, connector and everything. The phone company will send along a DSL modem that plugs into the phone line and has an *Ethernet connector* coming out. The Ethernet can plug right into your computer, or it can go into a router that does some very helpful things for you. First of all, the router plugs into your *LAN* and lets more than one computer share the *DSL* line.

Secondly, it takes a single *IP address* and shares it with many (*a hundred or more*) users by serving up a number of local IP addresses by DHCP (*Dynamic Host Configuration Protocol*). This also gives you a little more security because it is impossible for people on the Internet side of your router to see or access your local computer's IP. And, most





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routers now have a convenient Web-based interface that makes the setup as easy as possible.

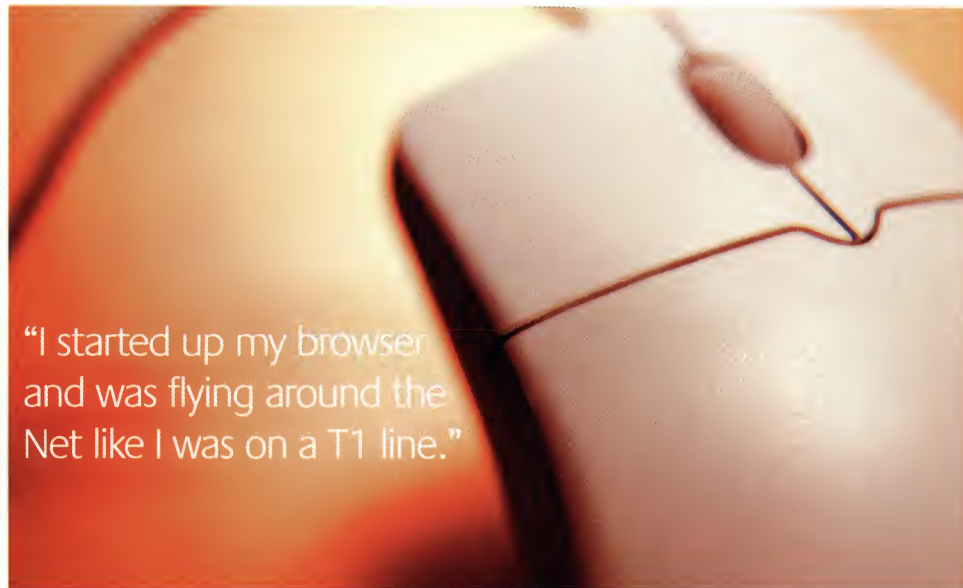
With the router, I was freed from the pre-packaged offerings and able to make my own deals. The local phone company (Verizon) was happy just to sell me the DSL connection. In fact, they had a special offer going where they wouldn't charge for the modem or installation if I plugged it in myself. After making a bunch of phone calls to local companies that were on Verizon's partner list, I found an *ISP* who could offer me exactly what I needed in terms of mailboxes, web space, a single *IP address* and national dial-up access with local numbers. The router I chose was the *X-Sense X-Router Pro*. It offered simple, Mac and PC-friendly setup and a *10/100 Ethernet* switch that would let me move data between computers very quickly and still be able to talk to my old *LaserWriter IIg*.

### It's Here!

Luckily, it took less than thirty days for the modem to arrive, because there are a lot of other areas that are backlogged

and a two-hour wait for them to find the problem and to plug me into the right line, but the data light eventually popped on. I started up my browser and was flying around the Net like I was on a *T1*. The rest of the process was fairly anticlimactic. It took about five minutes to configure the router, redo my *TCP/IP* settings and configure my wife's iBook. When those machines were happily ping-ponging away on the router, I fuzzed with the PC for a while and finally got that running.

The one little thorn in my side was the long *Ethernet* cable trailing down the hallway to the living room for the iBook. The solution to that was a little pricey, but too much fun to resist: an *AirPort*. Getting it to talk to the Internet was a complete no-brainer. I did, however, have to dig into the manual setup options to figure out how to enable file sharing and network printer access over *Ethernet*. After more than two weeks, our connection has remained rock-solid. I am running at the full, *256KB* bandwidth the line is rated for - at least when the server I'm connected to us up for it. The total cost is pretty reasonable, as well. Before I



several months. I had all the other pieces of the network waiting when UPS knocked on my door, which, of course, was only one day, before I was scheduled to leave on a week-long business trip. I had an afternoon to get everything running (*along with preparing for the trip*). I resisted the temptation of trying to plug everything in at once and hope for the best. Instead, I took it one step at a time. The first thing I tried was plugging the modem directly into my G3. I set up *TCP/IP* with the IP and domain name server (*DNS*) addresses from my service provider.

### And nothing happened.

According to the lights on the modem, I wasn't talking to the phone company central office. It took one phone call

moved, I was paying for two phone lines and, during the hours that my wife and I were both online, I needed to burn time on my cell phone to make or receive any calls.

### And productivity?

Well, it eventually went up. The novelty of having high-speed Internet at home took a while to wear off. Finally downloading all those updates I was putting off, and discovering that streaming video does really work kept me "busy" for a while. But at last, I am feeling much more at home in my home office. ☒





# Jill Greenberg

IMAGES BY JILL GREENBERG  
WORDS BY SCOTT HICKEY

IT'S A SHORT RIDE IN A PURPLE CARPET LINED ELEVATOR TO JILL GREENBERG'S PHOTOGRAPHY STUDIO LOFT IN THE CHELSEA NEIGHBORHOOD OF MANHATTAN.

The elevator opens to a red anteroom and a line of young men milling around a *Simpson's* pinball machine trying their luck at an open casting call for an ad campaign for *questia.com*

Through a wooden door off to the right, Greenberg's main office glows like a

radioactive orange at the end of a hooking hallway embossed with a metallic silver diamond pattern.

Scooter, Greenberg's brown shepherd-mix puppy, trots over and offers his black muzzle as a wet-nosed welcome while Greenberg finishes a phone call sitting on a curved orange leather couch by her Tangerine iMac.

The bold, splashy colors that define Greenberg's photos, many of which decorate her office, seem to have bled their playful rainbow onto the walls. There are colors everywhere except her expansive studio, which stands as a stark white oasis in the middle of this spinning color wheel.

Today, the studio is tranquil, but not when Greenberg's working.


"We had **Fatboy Slim** in here the other day taking some publicity shots for his new album," she said standing in front of roomful of Macintosh computers she uses to digitally manipulate the images she shoots. "I brought in a DJ for the occasion, but I couldn't tell if he liked her. I have a turntable set up here, and I like to bring in a DJ if I want to get an action shot. The music gets them moving around and dancing."

Asked if on quiet afternoons she likes to hop on the turntables and scratch out some funky drum breaks, Greenberg grins and shakes her head no.

"But we all like to breakdance," adds her assistant **Amy Dresser**, who's working on Apple's 22-inch flat panel cinema display.

### Emerging Talent

Greenberg grew up in a suburb of Detroit. She set out to earn a degree in illustration from *Rhode Island School of Design*, but switched to Photography and graduated in 1989.



"I'VE NEVER BEEN INTO 'PURIST' OR 'STRAIGHT' PHOTOGRAPHY. I LOVE TO CREATE IMAGES RATHER THAN TAKING THEM."













Her experiments in digital image manipulation began when Photoshop was released a year after she graduated. A stop at a camera store where you could rent a Photoshop workstation by the hour was the beginning.

"I immediately enrolled in a Photoshop class at the School of Visual Arts, took one class and bought my own Mac. It was really useful in the transition from assisting to shooting. I did freelance retouching just as I was starting to shoot on my own," she said.

"The reason I was so into the Mac was that I have always drawn and painted. I love graphic design, and have designed posters and CD packaging. More importantly, I have always manipulated my photographs in some way or another. I used to do projections, reprojections, reflections and double exposures. I've never been into "purist" or "straight" photography. I love to create images rather than taking them."

Greenberg's first big break came in 1992 when her photo of **Lady Miss Kier** of **Deee-Lite** (of "*Groove Is In the Heart*" fame) was published in **Mondo2000** magazine. Since then, her unique images have been in demand by magazines (*Entertainment Weekly*, *Time* and *Teen People*), advertisers (*Target*, *Proctor and Gamble* and *Coca Cola*) and music labels (*Sony*, *Warner Brothers* and *V2*).

People like her style, which Greenberg describes as "*simple, clean and iconic*." But she's not afraid to turn her colorful style inside out, albeit with a definite Greenberg twist.

"I have done straight black and white portraiture on white, I retouch it as well. I like to retouch seemingly straight black and white and carve out the details.

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People don't look at black and white in the same way, so it's unusual for it to be retouched and rearranged - it's a nice contrast."

### New Style

The techniques Greenberg develops for images sometimes come as lighting strikes of inspiration while others are slowly honed over time.

"I used to play around a lot on the computer. I don't sit around and experiment as much as I used to. I prefer to come at an image fresh and experiment instead of trying to force an idea on an image," she said. "There is one color overlaying technique I came up with about a year ago for *Yahoo Magazine* that I really like. They were looking for an illustration for a Millennium piece that ran in January 2000. I wanted to have cool looking models in slick futurist looking environments, but I was working with a typical editorial budget, and needed to solve the problem in miniature. Ruben Verdu and Jeff Nelson at 66 Grand based in Brooklyn, collaborated with me on it."

She pulls up an image on her G3 of a girl in a purple bathroom soaking in a pink bathtub filled with milk and Honeycomb cereal for an ad campaign starting this Spring to demonstrate how she achieves the effect.

"I don't know if I should give this one away," she says hesitating. "It's not a trade secret or anything, but I'd like to keep this one to myself a bit longer." ❖

## review 1 &gt; iMovie 2.0.1

BY TREY YANCY

THE VIDEO REVOLUTION CONTINUES. OVER THE YEARS, APPLE HAS DEVELOPED A VARIETY OF SOFTWARE THAT WAS TOSSED IN WITH THE PURCHASE OF A NEW MAC. THE LATEST, AND ARGUABLY GREATEST, IS IMOVIE, THE DIGITAL MOVIE EDITING SOFTWARE THAT IS NOW BUNDLED WITH EVERY FIREWIRE - EQUIPPED MACINTOSH.

The greatest? What about AppleWorks, Hypercard or the enormously powerful AppleScript? There are two reasons why I rate iMovie higher.

First, unlike **HyperCard** and **AppleScript**, it is aimed at the masses, not at power users. Second, short of laying out a huge wad of cash, there are no other applications that can do what iMovie can do. I equate iMovie with the 1980 debut of the revolutionary **Tascam PortaStudio**, the widely emulated cassette-based mixer and recorder which placed the power of a multitrack studio in the hands of mere mortals like myself. What we are talking about is empowerment with impact.



### Improvements

The original version of iMovie had a simple interface and basic editing tools. iMovie 2 sports a bright **OS X** look, as well as improvements in its tools and capabilities. The *non-expandable clip shelf* has been replaced with a *21 slot scrolling version*, which grows to accommodate more clips as needed. The *drawer-style editing options panel* has been replaced with a *row of buttons* for swapping between panels for clips, transitions, titles, audio and effects. The latter is a new panel for adding visual tweaks like color adjustment, sharpening, soft focus and water ripples. The *music and sounds panels* have been combined in a *single audio panel* containing sections for canned effects, microphone input and CD import.

There is also a bit more control in the application of effects, including *direction buttons* for push effects. A new titling option, *drift*, has been added, bringing the total number of effects to thirteen, nine of which are animated. Fonts can now be resized, and font colors have expanded from 16 to 32. There is also a *new advanced functions menu* for reversing the direction of a clip, locking audio to video, pasting over existing video and restoring clip media.

As before, you can export your work to the camera for storage on tape or for transferring to other formats, or you can save it as a **QuickTime** file. *The QuickTime*

*option* includes five presets for email, web, CD video, as well as advanced options for specifying frame size, compression formats for audio and video and sample rate for audio. New options have been added, one of which allows you to add black footage to the end of a camera export, and another for saving files in streaming QuickTime format.

### iMpressive

A sci-fi buff can shoot a model starship on a black background, add a water ripple, shoot the background by itself, then add a cross dissolve to create a shot of a cloaking device in action. A businessperson or student can create a sophisticated report by starting with footage of a talking head, replacing sections of video with other content (*movie footage, stills, graphs, iMovie-created slides, etc.*), and then add music without disturbing the original audio. This is very fancy stuff for freeware.

### iWish

There are a few items I'd like to see in a future version of iMovie: additional visual effects and filters, saving microphone input to the audio effects list, combining the audio tracks with the video soundtrack (*freeing up the independent audio tracks for creating a richer audio environment*) and built-in analog conversion. Other suggestions include: the addition of a second video track (*with a transparency slider and simple painting tools*), and a basic set of audio effects. It looks like what I really want is two applications: the existing freebie, and a fancier retail version called iMovie Deluxe.

### iThink

iMovie is easy, fun, empowering and is more appealing than offerings on the Windows side. It requires a **DV camera**. However, if you want to import **VHS**, **Video8** or other analog formats, you'll need to shell out a few hundred more for a camera that supports analog input. As for myself, I do a fair amount of Web work, but it was not until iMovie that I found a serious reason to make use of those QuickTime plug-ins I've been ignoring for so long.

**Pros:** Easy, fun, flexible, free.

**Cons:** Digital input only, can't import flattened video from disk.

From: Apple > [www.apple.com](http://www.apple.com)



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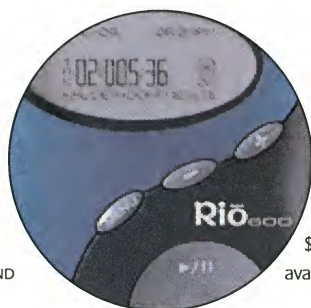
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## review 2 &gt; Rio 800

BY NICK DEPLUME

A NEW MP3 PLAYER IS IN TOWN! SONICBLUE ESTABLISHED ITS REPUTATION AS A PORTABLE DIGITAL MUSIC PLAYER MAKER WITH THE RIO. THE RIO RETURNS WITH THE SAME GREAT SOUND QUALITY AS THE RIO 600.



was able to fit in more than an hour of tunes. 32 MB add-on "backpacks" can be purchased for \$99.95, and larger memory packs are also available.

Offered as a more professional model, the *Rio 800* carries all of the great qualities of the consumer-level *Rio 600*, but adds improvements and new features.

Like the *Rio 600*, the 800 is light and curvy, with a backlit LCD displaying track information. The 800's enclosure, however, is definitely more stylish, with a brushed metal face. The player connects with your Mac using a *USB* cable, and the included *CD-ROM* comes with SoundJam MP and the *Rio* plug-in for transferring MP3 files. It's also fully compatible with Apple's *iTunes* digital jukebox software.

**However, that's where the similarities between the 600 and the 800 end.**

The most important feature of a digital player is its memory for storing MP3s. The 800 packs a full 64 MB doubling the *Rio 600*'s 32 MB and has enough room for well over an hour of music. I loaded it almost full with a selection of MP3s - mostly of 128 kbps quality with several MP3s of higher quality - and

Those annoyed with having to frequently replace the battery on their MP3 player will welcome the *Rio 800*'s rechargeable AA battery. Plug the *Rio* into the included power adapter, and you're all set.

The *Rio 800* has a new clip-on carrying case, allowing for easy accessibility to the controls on the faceplate. It also comes with a wired remote that can be used for basic player controls while the unit is in your pocket. A rugged travel case, which has room to store accessories, is sold separately for \$24.95.

A slightly out of place, but potentially useful feature is the built-in microphone. Record your voice and transfer the recording back to your computer in *WAV* format.

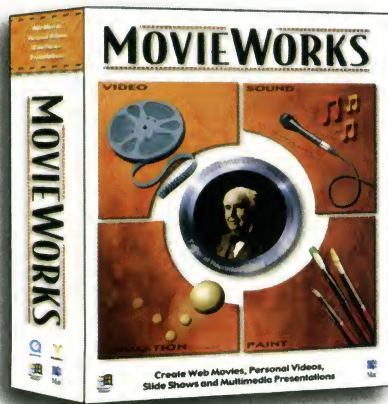
For a pro-quality MP3 player, the *Rio 800* fits the bill. At \$280, it's affordably priced, will provide listening enjoyment for any MP3 collector and packs great features into an aesthetic design.

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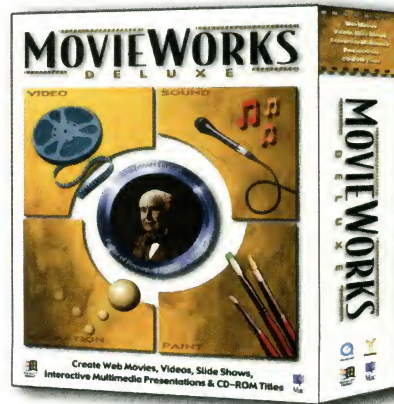
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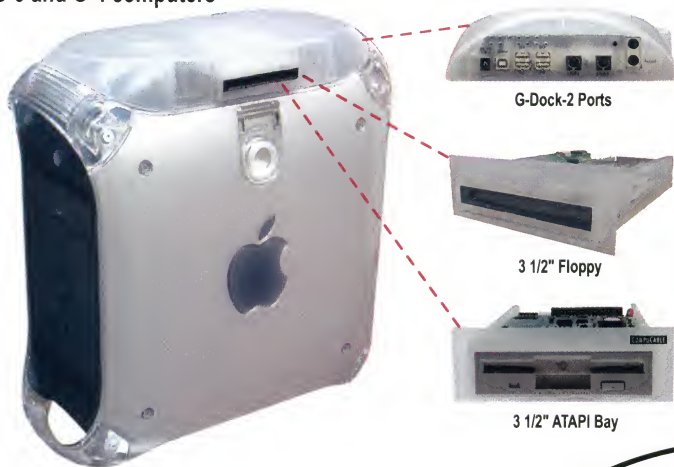
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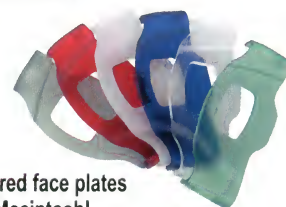


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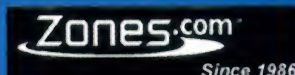
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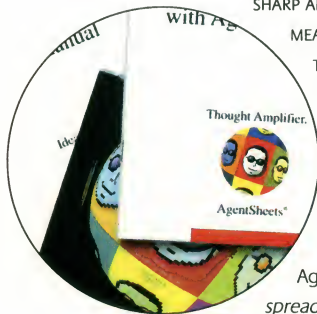
## Resellers



## review 3 &gt; AgentSheets

BY RIC GETTER

IN SPITE OF SOME TOOLS THAT HAVE MADE A GOOD EFFORT, THE LINE BETWEEN USER AND DEVELOPER HAS REMAINED SHARP AND DISTINCT. AGENTSHEETS IS BY NO MEANS AN ALL-PURPOSE PROGRAMMING TOOL, BUT IT HAS TAKEN SOME SIGNIFICANT STEPS IN BRIDGING THAT GAP.

**Function**

In an effort to place a very complex concept into very simple terms, AgentSheets refers to itself as an "idea spreadsheet." It succeeds in putting some very powerful functionality in the hands of people with interesting ideas but little or no programming experience. AgentSheets specialty is creating simulations, normally not the easiest goal for a programming novice to pursue. But the program takes some visual and logical constructs that are familiar to most computer users and uses them as the building blocks for the simulations. AgentSheets then goes one step further and compiles these simulations into compact, freestanding **Java applets** that can be run through any current web browser. Because the applets are built on a Mac, they run quite well on the Mac (*unlike many java apps out there*).

Even though AgentSheets is not particularly well known in the Mac community at large, it has been receiving a lot of attention in the scientific and education sectors. During its development, it was awarded several grants by the National Science Foundation, and has been in use by agencies like **NASA** and **PBS**. Some very impressive examples of what the program can do can be downloaded and run from the company's Web site ([www.agentsheets.com](http://www.agentsheets.com)).

**Basics**

AgentSheets is a program that defies explanation and demands a demonstration. The program's minimal printed documentation includes a tutorial that was not particularly easy to follow. However, a slightly different tutorial resides on the CD-ROM in the form of a QuickTime movie that is far more complete and much easier to follow.

The characters are the "agents" referenced in the program's title and creating them is one of the first steps in building the simulation. There is an extraordinarily primitive set of drawing tools provided for drawing the icon-like agents. Fortunately, the QuickTime version of the tutorial shows you how easy it is to import them from virtually any drawing tool. The



background cells the agents move around on are created the same way as agents.

The simulated world that the agents reside in is called a worksheet, essentially a scrolling window with a small drawing toolbar on the side. The agents are drawn onto the worksheet with the tools. At this point, the stage for the simulation is essentially set. The only thing left is to teach the agents what to do. In the language of AgentSheets, that means creating a "behavior."

**Behavior**

A behavior is made of actions and conditions that are constructed quite visually in what AgentSheets calls Visual AgentTalk. The

list of available actions is extensive, including not only movement, but music and MIDI sound, Web access and speech.

The Actions and Conditions makes extensive use of Balloon Help (*remember that?*) and built in explanations that are linked to the online documentation. There are also ways to evaluate and debug the behaviors as they are being developed. Finally, you drag the completed behavior onto an agent and press the "Apply" button to attach it. A component called *SimCalc* will graph the results of the simulation in real time. When everything is working as it should, the *Ristretto* function will build the Java applet and an HTML page to call it.

**Recommendation**

AgentSheets is not a program for everyone. But for educators, students and even scientists and engineers looking for a way to get into creating sharable, web-friendly computer simulations, the process has never been easier. If you have the kind of mind that can think up the kind of worlds the program can build, you are already well equipped for mastering its intricacies.

**Requirements**

Operating System: MacOS 7.5.5 and higher  
Application: 8mb  
Disk Space: 14mb

Price: \$150 (single user)  
From: Agent Sheets Inc.  
>[www.agent sheets.com](http://www.agent sheets.com)

MacDirectory

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## review 4 &gt; Palm M 100

BY NICK DEPLUME

THE PALM M100 PALM COMPUTING'S NEWEST HANDHELD, IS AN ATTEMPT TO WIN OVER NEW USERS IN THE CONSUMER MARKET WITH A LOW-COST ORGANIZER. LIKE OTHER PALM OS-BASED DEVICES, THE M100 MANAGES YOUR CALENDAR, ADDRESS BOOK, TASK LIST AND CAN SYNCHRONIZE WITH A PERSONAL INFORMATION MANAGER ON YOUR DESKTOP COMPUTER (FOR THIS LAST PURPOSE, THE MACINTOSH VERSION OF PALM DESKTOP IS INCLUDED). IT CARRIES 2 MB OF MEMORY ON BOARD, ENOUGH FOR ALL BUT THE MOST TAXING USES.

**Style**

Unlike most other Palms, the m100 takes a more personal approach to style. Immediately apparent is the curvy case, fitting easily in the hand, a departure from the traditionally boxy Palm handhelds (with the notable exception of the elegant Palm V series). Though the screen is a bit smaller than usual, it's sharp and perfectly usable, and easy to carry around for daily use.



Other design particulars make the m100 a joy to use. The cover flips completely behind the unit, making it less of an obstructive add-on and more of a useful instrument. Moreover, the cover has two small openings: one of transparent plastic above the top of the screen, and another making it possible to push one of the buttons. Doing so will display the time on the screen. You can even hold down the button to show the time in the dark, courtesy of the backlit screen. Though I occasionally found it slightly hard to press the on button, it proved to be a minor issue at most. The attention paid by Palm to design on the m100 is one of its major advantages.

Those who feel confined to "thinking jail" by the black color scheme are in luck: the faceplates on the m100 are replaceable, and a variety of colors are available from Palm for \$20 each.

**New Features**

The m100 runs *Palm OS 3.5*, and includes a new application, *the Note Pad*. This replaces the *Memo Pad* app on the far-right Palm button, and allows you to jot down quick notes more naturally by writing directly on the screen, instead of using the occasionally tedious Graffiti method that is the norm for most Palm-based text input.

Instead of the traditional cradle for syncing with your desktop computer, a more compact cable is included instead, which can be plugged into the unit itself. While

most people will praise this as a space-saving move, those who still prefer the cradle can purchase one separately from Palm.

**Price**

With a low price of \$149, the Palm m100 appears at first to have a price advantage over Handspring's competing Palm handheld, the Visor, which comes in at \$179 with USB connectivity and \$199 with an optional serial cradle package. However, when using a USB Macintosh, the

\$149 price point is less and less of a reality. To

sync the m100 with a USB Mac (which would be any recent Mac, for that matter), you will need to purchase the PalmConnect USB Kit, which is \$39.95 from Palm. For serial-based Macs, the Macintosh Serial Adapter is required for syncing, and can be purchased for \$5.95.

As purchasing the m100 is less of a price advantage for USB Mac owners, they will need to weigh style, screen size, and whether they need Handspring's Springboard expansion slot when comparing the two handhelds.

**Recommendations**

Bottom line - The Palm m100 is an excellent entry-level handheld. Despite the fact that you'll need to shell out \$40 more to use it with your USB Mac, the m100 has good value. If you're looking for a quality handheld with a stunning design, be sure to give it a look.



Price: \$149

PalmConnect USB Kit: \$39.95

From: PALM > [www.palm.com](http://www.palm.com)



## review 4 &gt; Office 2001

BY DAN MOUGHAMIAN

AFTER MUCH ANTICIPATION, MICROSOFT ANNOUNCED THE ARRIVAL OF OFFICE 2001 FOR THE MACINTOSH AT THIS SUMMER'S MACWORLD EXPO MORE THAN TWO YEARS IN THE MAKING. OFFICE 2001 IS NOT MERELY A PORT OF THE LATEST WINDOWS VERSION, BUT A SUITE OF APPLICATIONS AIMED AT GIVING MACINTOSH USERS THE BEST SET OF PRODUCTIVITY TOOLS AROUND. HAPPILY, MICROSOFT SEEMS TO HAVE SUCCEEDED ON THIS COUNT.

### Overview

Though the overall capabilities of Word, Excel and PowerPoint remain similar to the 98 versions -there frankly is not much they can not do. What makes Office 2001 such an improvement is not what can be done, but how efficiently it gets things done. If only one word could be used to describe the improvements made to Office 2001, it would be "streamlined."

Office 2001's interface has been significantly improved with the advent of the *Formatting Palette*. Put simply, you no longer have to use a stack of toolbars in order to access all the text and formatting options for a given document. Instead, Office 2001 makes use of a Painter-like palette for each of its applications.

Everything from text formatting to document setup can be accessed from a single floating palette. Each applications palette contains a set of drop down formatting options, so a given set of tools can be hidden when not in use.

Anyone who uses **Painter** (or other palette-driven applications like *Photoshop*) will quickly feel at ease with this new metaphor, something Microsoft was surely aware of when they designed it. For those who are more comfortable with the old toolbar metaphor, Microsoft has kept that option open as well - even the classic Word 5.1 toolbar is still available. In short, Microsoft has made it simple for Office users to customize their interface in a way that best suits their habits, which is no small feat given the amount of functionality available to these applications.

Other changes to the interface include easier-to-read icons, the *Project Gallery* (basically a fancy template chooser) and full support for Navigation Services. Each application has been redesigned to make common tasks easier to accomplish, as well as to include some useful new functionality.

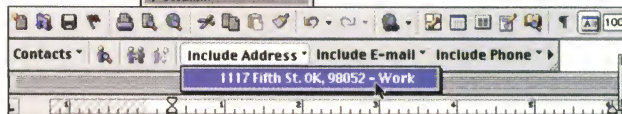
### Word 2001

If Word was a popular application for Mac users before,

its only going to become more popular with the changes made in Office 2001. Given the aforementioned interface changes, screen clutter has been reduced to a minimum while maintaining a high degree of access to the most commonly used functions. In addition, Microsoft has made Word a more powerful application by integrating the

**Encarta World English Dictionary**. Simply click on the dictionary icon and begin typing the word you wish to find, and Encarta will do the rest. Particularly useful is a contextual menu option that offers the definition and several synonyms for any highlighted word.

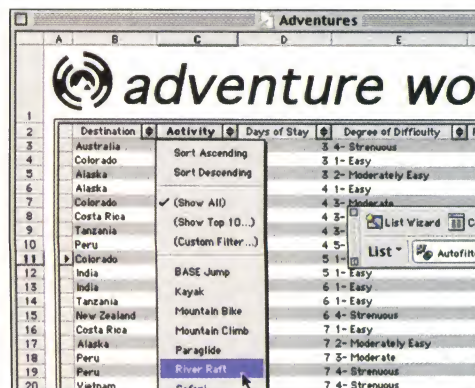
A couple of areas for improvement: the thesaurus needs to be better integrated and work more like the Encarta dictionary. Also, there does not appear to be support for



document-sensitive scrolling under the "Normal" view in Word 2001.

### Excel 2001

In addition to benefiting from the new interface (*Excel also sports a formatting palette*), Excel 2001 has been redesigned with the goal of making common spreadsheet tasks easier. One of the primary goals: making it easier for users to create and modify their lists.



Indeed, the *new List Manager* makes it easier to (among other things) filter, summarize and print list data.

For example, it ensures list headers are kept at the top of

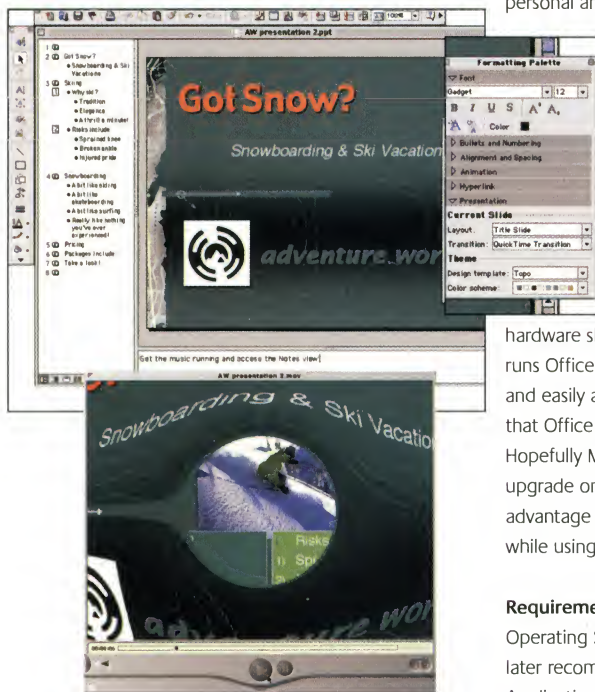


the screen while the user scrolls through the document, or prints a multi-page list.

Other improvements include an updated *AutoComplete* feature, and a **Filemaker Pro Import Wizard**. The former does make it easier to populate large spreadsheets with standard text values (*when applicable*), but the constant presence of little drop-down menus can be somewhat distracting when creating columns of text that are comprised of mostly unique values. The latter, while not the **Access 2001** solution many Mac enthusiasts had hoped for, is the next best thing for importing and using database information in Excel. Users can drag their Filemaker data directly into Excel, which then opens the Import Wizard. From there the Wizard helps the user to select the fields they want to import. Finally, Excel 2001 also sports a *new calculator* that makes it easier for novice users to gain experience in creating spreadsheet formulas.

### PowerPoint 2001

Not to be outdone by Word or Excel, Powerpoint 2001 features not only the improved *Formatting Palette*, but a



new *Tri-pane* view that allows users to edit their presentation, outline and notes from the same window. Among all the interface improvements to Office 2001, this one stands out as the most beneficial to Powerpoint users. In addition, the process of choosing slide layouts, themes and color schemes is now far easier than it used to be.

Another nice enhancement is the ability to use Quicktime transitions and save presentations as Quicktime movies.

Other goodies include the ability to use pictures as bullets and support for animated GIF files. Put it all together and Powerpoint 2001 means better presentations in a shorter amount of time.

### Entourage 2001

Last but certainly not least, Office 2001 includes a completely new application - Entourage 2001. Designed to help users manage their e-mail, personal contacts and work schedule from a single application. Entourage may become the defacto e-mail client and personal information manager for Mac users. It allows users to view tasks, calendar information, contacts and any number of e-mail specific views all from a single tri-pane window similar to the one used in Outlook Express. In addition to its information management functionality, Entourage 2001 allows the user to flag any given office document for follow up at specific dates and times. Simply click the flag icon while creating said document, and when the reminder time arrives, a small notification window appears.

In short, Entourage can help users to manage their personal and business information from one place, rather than two or three. For that reason alone, it should become a popular application.

**Conclusion:** The bottom line for existing Office 98 users is that you will probably find the upgrade to Office 2001 worthwhile for the interface changes and Entourage alone. System requirements have not changed appreciably since the last version (*a rarity for any application these days*), so your existing

hardware should run Office 2001 just fine, assuming it runs Office 98 well. Online documentation is thorough and easily accessible. The only real complaint I have is that Office 2001 is not Carbonized for use with OS X. Hopefully Microsoft will offer a free or inexpensive upgrade once OS X is released so users can take advantage of Xs protected memory and other features while using Office 2001.

### Requirements

Operating System: MacOS 8.1 or later > MacOS 8.5 or later recommended > Megahertz: minimum 120mhz  
Application: 32MB of RAM with a minimum 1MB of virtual memory > Memory for systems prior to 9.0 > 48MB of available RAM with a minimum 1MB virtual memory for systems 9.0 and later > Disk Space: 160 for Drag Install > 75 MB for a minimum Custom Install > Display: 640 x 480 or higher

Price: \$499

Upgrade: \$299

From: Microsoft >

[www.mactopia.com](http://www.mactopia.com)

MacDirectory

★★★★★





# Inkjet Printers

IMAGES BY ANTHONY SAINT JAMES > WORDS BY NOAH KRAVITZ

Digital cameras have revolutionized the way people take pictures. Or at least the way I do.

I never used to take pictures, mainly because I'm lazy and couldn't be bothered to take my film in for developing, let alone pick it up.

I still have an almost-finished roll in my camera from a trip to Europe two years ago, but that's another story.

Since I got my hands on a digital camera, though, it's been a different story. My digital camera lets me preview my photos right after I've shot them, save on film costs and email snapshots to friends with a few clicks of the mouse (*which I'm tethered to already*).

## But what about printing?

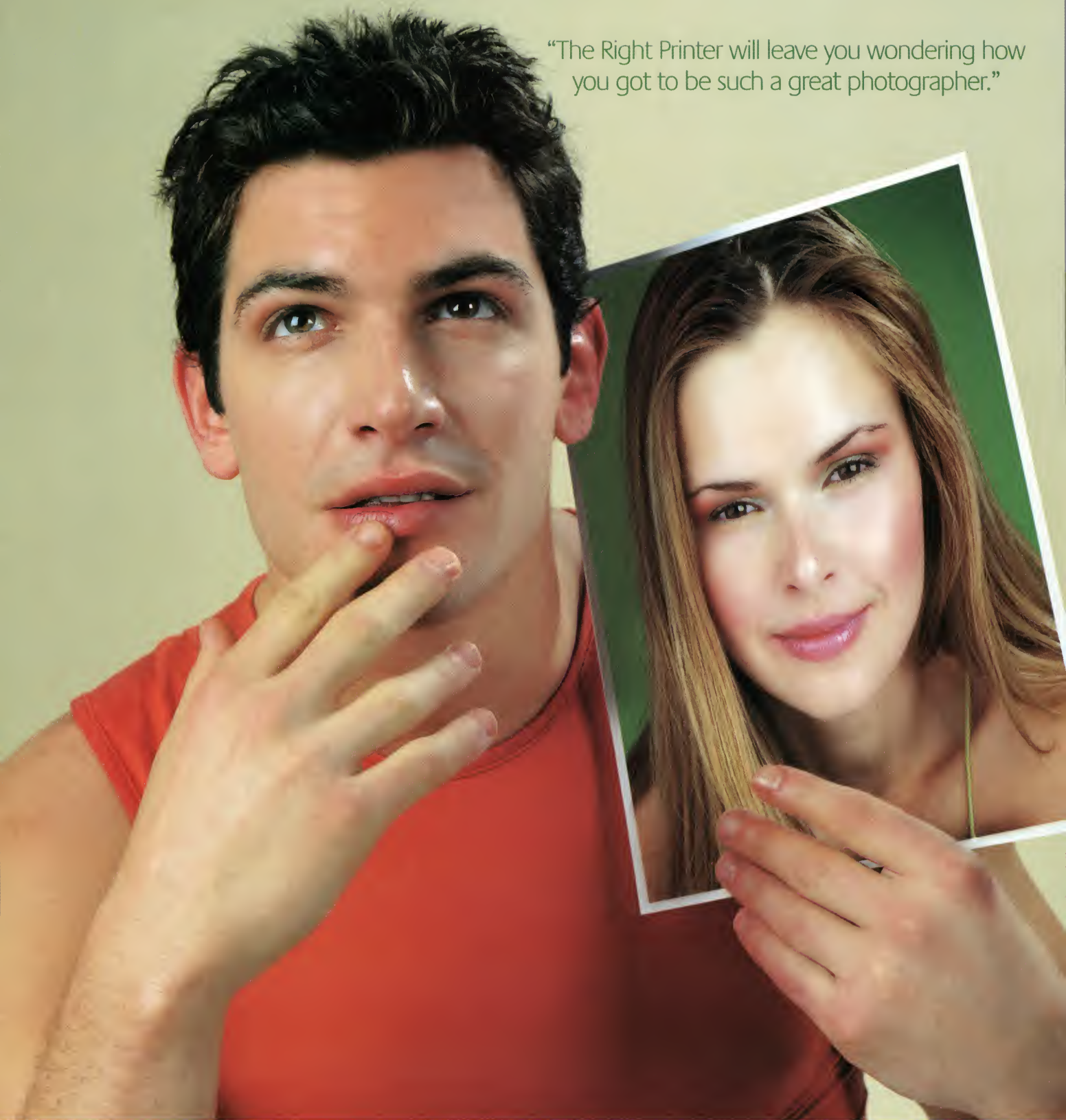
Life isn't just about pixels and screens; it's nice to have pictures on your walls, snapshots in your wallet and a black and white of your sweetie in a frame next to your bed.

Thanks to technological advances and the recent growth cycle in the imaging industry, quality ink jet printers can now be had for a song. Here's a look at seven new models that you might want to consider for both photo and general printing. For your convenience, they're grouped by suggested usage - General, Photo and Professional, which also correlate to price range.

When looking at a printer, bear in mind what you'll be using it for. Printers optimized for photos tend to lack a bit when it comes to speed and quality of black text printouts.



"The Right Printer will leave you wondering how  
you got to be such a great photographer."





Also, manufacturers have developed precise ink-delivery schemes involving separate ink cartridges for different colors - most photo printers employ four or six separate cartridges. Be sure to check out a printer's ink usage and cartridge replacement cost before making a purchase.

### General Use Printer

**Epson Color Stylus 980 (\$249)** > Epson updates its workhorse color inkjet printer line with the new *Color Stylus 980*, a worthy addition to any home, small office or business demanding fast, reliable printing of text and color on a budget. Rated at a 5,000 page per month capacity at 13 ppm (*pages per minute*) black text and 10.5 ppm color in draft mode, this baby will hold up to all but the most grueling of demands placed on it. The 980 makes use of *Epson's Micro Piezo* technology to push ink onto the paper in the smallest droplets possible at an astounding density of 2880 x 700 dpi (*dots per inch*), and it also does a great job of managing those drops to keep your net cost per page low.

**How did the sheet churned out by the 980 look?** Great, as long as you're not expecting professional-quality photos. This printer is best suited to text and graphics applications, and shines when it comes to grinding through big documents and graphics print jobs that need to look professional.

While the 980 can handle low- to medium-resolution photos fairly well, it doesn't produce the subtle skin tones and highlights and sharp contrasts that a top notch photo-quality printer does. Text and graphics looked fair-to-good on plain paper, but particularly sharp on coated paper.

If you're only planning to print the occasional hi-res photo and need a fast, reliable color output solution, the Color Stylus 980 is a lightning fast, reliable printer that gives you a lot of bang for your buck. The Color Stylus 980 supports Mac OS 8.1 or later, USB and Parallel interfaces, and comes with all necessary drivers and photo editing, enhancement, management software as well as *Trellix Web*, a Web site creation application.

### Photo Printers

**Epson Photo Stylus 875DC (\$299), HP Photosmart 1218 (\$499) Canon BJC-8200 (\$399) Lexmark Z52 (\$179)**

All four of the photo-quality printers turned out impressive color prints of photographs. They make use of different proprietary technologies aimed at the same task: pushing thousands of tiny drops of ink close enough together on a page to simulate the smooth gradients in color of a photograph (*or the curves and sharp lines of an alphanumeric character*).

Epson calls its process drop-on demand *Micro Piezo* ink jet technology, and claims its photos will resist water and fading for up to 25 years due to the lightfast properties of Epson inks. HP claims that its *Color Layering Technology* places 29 drops of ink on a single pixel to produce 17 different shades of each primary color. Lexmark claims a maximum resolution of 2,400 x 1,200 dpi for the **Z52**, while Canon claims to use the tiniest ink drops in the business (*four picoliters small*) to up the ante to 2,400 x 2,400 dpi on the **BJC-8200**.



Sounds great, but what do all the fancy words and whiz-bang promises mean when it comes to the quality of those pictures of your family reunion?

The big differences in these printers come down to features, price and relative image quality. Both the Epson **875DC** and the **HP 1218** feature integrated media slots for printing from memory cards, and the HP can do so without the need for your Mac. Specifically, the Epson comes with a *PCMCIA* adapter for cards from digital cameras and the HP accepts both *SmartMedia* and *Compact Flash* modules for printing via an *LCD* control panel on the front of the printer itself. No need to turn your Mac on or even connect it to the **HP 1218** -- just pop a memory card in and use buttons on the printer to select and image and you're all set. The HP also has an infrared port for printing of portable documents from your *PowerBook*, digital camera or PDA, and comes with an adapter for automatic two-sided printing.

Additionally, it features an automatic *media sensor* so you'll never accidentally waste a pricey sheet of glossy photo paper on a draft-quality print. While not essential, these features are nice for the photo enthusiast or on-the-go professional who doesn't always need to edit or save images to his desktop Mac, and likes the convenience of bypassing the computer altogether sometimes.

Of course, you're going to have to pay for these nifty conveniences; the HP lists for \$150 more than the Canon, and a whopping \$320 more than the Lexmark.

What really matters is image quality, and the Epson edged out the Canon as the best of this bunch, but not by much. A digital photography enthusiast would be happy with color prints from any of the four units, but the Epson and Canon did better than their counterparts when it came to color gradients, skin tones and other details that would come to light under expert scrutiny.

The HP produced very crisp, bright photo images, but subtle details and clear contrasts emerged a bit more clearly in its competitors' prints. For any price, the Lexmark is a pretty stunning example of how far inkjet technology has come. Any home user would be proud of photos printed on premium paper in the Z52, and it's less than \$200, which makes it an attractive choice for the budget-minded.

While none of the four turned out professional-quality text (*they're designed for photographic reproduction first and foremost*), the Lexmark lagged a bit behind when it came to producing smooth, crisp letters and numbers, particularly on plain paper. The HP was the fastest overall at churning out Word documents, while the Epson beat it out in the hi-res color output race by a hair.

My choice of the lot is the *Epson Photo Stylus 875DC*, but it's a close call. The Epson's print quality was the best of the group when it came to reproducing photos, and now that it's selling for less than \$300, it's a great deal, especially in comparison to the more expensive HP or less feature-packed Canon.

As a bonus, the Epson comes with a roll paper feeder and a sample of 4" wide premium glossy photo roll paper which proved great fun in printing out long filmstrip-like collages of snapshots.








"Balance quality and value when  
looking for a printer."







If you don't need the memory card slot and stand-alone print capacity, take a good long look at the *Lexmark Z52*. For a small drop-off in print quality you get a big savings that will go a long way towards premium print paper or a weekend getaway on which to take all those digital pictures you're going to print out.

#### **Wide-Format Photo Printers**

**Epson Photo Stylus 1270 (\$499)**  
**HP DeskJet 1220c (\$499)**

These two printers are the bigfoots of our test group, capable of printing out glorious wide-format color photographs and taking up your entire workspace with their girth. But what you'll give up in desk space and cost is compensated by high-quality color printing.

Both the Epson and HP are speed demons capable of quickly churning out wide-format prints up to 13" x 19" on a variety of media. The HP claims a maximum resolution of 2,400 x 1,200 dpi, while the Epson only goes up to 1,440 x 700 dpi; both machines employ a six color print system using technologies similar to the *HP 1218* and *Epson 875 DC* as described above. USB and parallel interfaces are standard equipment on both machines, and HP offers an Ethernet network interface as an add-on for the 1220c.

Additionally, a PostScript-compatible version of the 1220c is available from HP at a list price of \$599. Both machines will output stunning color photos when premium glossy photo paper is used. Overall, you'll be hard pressed to find too much to complain about with either machine unless you compare them to professional-grade dye-sublimation printers costing twice as much. Both machines turn out respectable black text, though not quite up to the snuff of a laser printer. Draft modes whiz through long Word files with ease. Graphics come





“CUDDLE UP WITH THE PRINTER OF YOUR DREAMS.”

MODELS: IRINA & CHRISTIAN > MAKE-UP: ISAAK > STYLIST: PIERRE COLORADO > AGENCY: Q MODEL MANAGEMENT > PHOTOGRAPHER: ANTHONY SAINT JAMES > PHOTO ASSISTANT: MARK EDIE



out crisp and bright, though the HP had a little trouble maintaining its sharpness on coated paper.

The HP is a slightly speedier and noticeably quieter machine, and includes an adapter for automatic two-sided printing, which is a nice feature for business applications. But the Epson's image quality made my jaw drop time and time again. For me, the big test came down to a high-resolution close-up of a friend's face I'd taken with a 3 megapixel digital camera, not quite "professional quality," but a worthy test of a sub-\$500 inkjet printer.

The HP 1220c turned out a beautiful image with clear detail, bright color and sharp contrast. What the Epson left in its output tray, however, was nothing short of amazing. Shadows were truer, tiny details like hair and skin tones crisper and warmer. My friend was sitting in front of his computer screen at work, his salt-and-pepper hair framed by a mostly black monitor.

The detail of his snowy, wiry hair against the deep black of the computer screen was stunning, and the brightly rendered on-screen graphics drew a sharp comparison to the soft hues of his face and shirt collar. Again, the HP was no slouch and its printouts will make you happy, but for the same price, the Epson will leave you wondering how you got to be such a

great photographer. It's truly a fantastic photo inkjet printer.

#### Final Words

If price is of no concern to you, get the *Epson Photo Stylus 1270*. It has the best image quality, razor-sharp photo output, passable text quality and the versatility of a wide-format printer.

While not quite as quick as the *HP 1220c*, it's more than serviceable and makes up for the speed difference with its superior image quality. For mid-range photo printing, go with the *Epson 875DC* or *Canon BJC-8200*.

The Epson turns out slightly better images and has the added benefit of a digital media slot for memory card printing, but the Canon is a bit speedier and cheaper when it comes to both street price and replacement ink. The Lexmark is a great buy for under \$200, producing wonderful high-resolution images.

Just be sure to smile for the camera, go easy on the Photoshop retouching and invest in some glossy photo paper for those extra-special snapshots. ✕



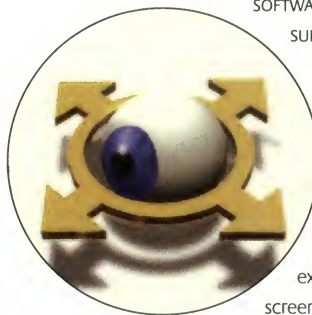
NOAH KRAVITZ (NK@THREEBASE.COM) IS CURRENTLY BRINGING THE CLAUDIA PROJECT TO LIFE IN BROOKLYN, NY. HE WORKS AS AN EDUCATOR, MULTIMEDIA DESIGNER/PRODUCER AND WRITER AND IS THE FOUNDER OF THREEBASE.COM.



## review 5 &gt; Cities of Europe Virtual Tour

BY MICHAEL CONNERS

WHEN I FIRST GOT THIS CD, I WASN'T REALLY SURE WHAT TO EXPECT. I THOUGHT I WOULD NEED TO INSTALL SOME SOFTWARE TO MY HARD DRIVE, BUT I WAS SURPRISED. NO LOADING OF SOFTWARE WAS NEEDED BECAUSE THE SOFTWARE RUNS COMPLETELY OFF THE CD.

**Upon Arriving**

The first impression is a good one. The interface was easy to learn, and within minutes a person would know exactly what was happening on the screen and what was needed to interact with the program. The first window has some basic buttons used to select: a place to go; a quiz a map of Europe or quit the program.

I chose a map of Europe. When the cursor went over a city, music started to play that country's national anthem. It was too much though - a little distorted and loud. Clicking on the London icon brought up the London window.



A brief history of London appears with a map. Red icons pop up on the right side of the window, which allow for viewing of the major highlights.

Diving into the subways of London, the viewer is offered a few choices for beginning points. Move the mouse over an icon, and an explanation of what the icon is pop's up.

**A Quick Time Tour**

The next window was well done. The top portion of the window was a frame for playing QuickTime Virtual Reality movies of the cities highlights.

Below the movie viewing area was the panoramic view of the same movie. This area allows you to click on it frame by frame to move directly to that area. Above the various frames are links naming what is being viewed. This text pop up area has a complete description of the item being clicked on.

On the map located on the right portion of the main screen there are various red icons. Clicking on a red icon immediately pulls up a Quicktime movie.

Also on the main screen is an "Index" button. Clicking on this brings up a new screen which shows a wealth of information. Move the mouse around and read about translating phrases, converting money and converting to the metric system. This is probably the most difficult window to use because it's loaded with so many features. Maybe in the future, the Index will be broken down a little better so areas won't be so cluttered.

Back on the main London page, there were icons across the top of the window for museums, shopping and main sights. These icons quickly take you to a specific area without having to navigate through the subway underground system.

**Recommendation**

Overall, I think "Cities of Europe" is a well-conceived program that packs a lot of information into a small package. Some of the interface functions are a little difficult to grasp at first, but works well once you are acclimated. The QuickTime movies add a nice touch giving you a sense of where the objects are in relation to each other.

The program is no substitute for the real thing, but works well as an educational tool. If you can't afford the plane ticket to Europe, but still want to see the sights, this virtual tour is for you.

**Requirements**

RAM: 8MB  
Monitor: 256 colors minimum  
CD: 2x speed minimum

From: Negate Publishing  
Web Site > [www.negate.co.uk](http://www.negate.co.uk)  
Price: \$14.50





Stop & Read this.

"Steve Jobs is persistent about providing a public report on Apple's market valuation."

"Apple Protests Set for Expo Paris."

"Lawsuits were filed against IBM on behalf of Holocaust survivors."

"Macromedia promises new Web solutions for Apple's new OS X."

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## review 6 &gt; Traitor's Gate

BY DAVID DUDEK

TRAITOR'S GATE IS AN ENGROSSING SINGLE-PLAYER ADVENTURE GAME SIMILAR TO MYST. THE GAME IS EXTREMELY REALISTIC, AND YOU SHOULD KNOW GOING INTO IT THAT MANY OF THE TASKS YOU MUST ACCOMPLISH ARE COUNTERINTUITIVE.

**Objective**

Your mission, as agent Raven, is to infiltrate the Tower of London, and capture the British Crown Jewels. In order to accomplish your goal you must solve various problems along the way. These problems range from picking locks to figuring out complex puzzles.

When you start the game it is very important to listen to the mission briefing. This will reduce the confusion you will likely experience in the initial stages of the game.

This confusion can easily lead to frustration, but as you learn as you get into the game, you will also notice that you start to think like the games creators.

One suggestion is to move slowly and pay close attention to your surroundings. Also, be sure to use your camera frequently, as it is one of the most important items in the game. Once you take photos, if they are of importance, your staff back at the lab will let you know. Moreover, mapping is also very helpful, especially in the seemingly endless sewers.

**Graphics**

The game has impressive graphics, and includes four disks full of full motion graphics, which were created using Apple's QuickTime VR and Macromedia's Director software. Every so often you will come across impressive sequences when completing significant tasks. These help to keep the game interesting.



It is highly recommended that you run this game on Power Macintosh G3/300 or higher with at least 64megs of RAM.

**Summary**

Overall, the most satisfying part of the game is the graphics. If you like challenging games, this is right up your alley. The nonlinear nature of the game makes it easy to get frustrated and confused. It took me sometime to get my bearings. Finally, I found the final sequence interesting, but not entirely satisfying after such a great time investment.

**Requirements**

Processor: 200 mhz

Ram: 64 megs of Ram, 32 megs with virtual memory turned on. Monitor: 16 bit atleast 640 x 480

For more information go to: [www.traitorsgate.com](http://www.traitorsgate.com)

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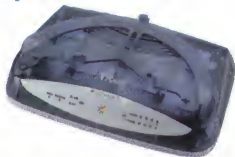


## MIH-130A

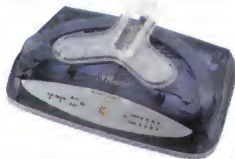
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review 7 > **Mac Tonka Truck Pack**

BY HAROLD GUNTHER

THIS PROGRAM IS PACKED WITH FUN ACTIVITIES FOR CHILDREN AGES 4 AND UP. MY TWO GRANDCHILDREN, AGES 4 AND 8, ARE QUICK TO CHOOSE THEM WHEN THEY VISIT AND HAVE COMPUTER TIME.

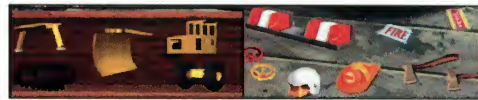
**Search and Rescue:** Players start by learning about trucks and other equipment, working on equipment, learning to fly a helicopter, driving the rescue boat or fire truck or by responding to emergencies.

Choosing to work on the equipment, learning to operate the vehicles and helping out in the emergencies earn the player certificates and medals.

The player can do much while working on the vehicles - apply stickers, change the paint color or repair them in the maintenance shop.

**Construction:** The players begin working in one of five areas - build a road in the desert, dig for treasure in the

quarry, clear a snowy mountain road, work on city projects or repair the Tonka trucks in the garage.



These areas *teach a child how to operate the machinery and achieve a predetermined result*. These projects help young people learn how a large project can be divided into smaller tasks, and show how the sequence of events is important. They *teach why it is important to complete one job before starting another*.

Overall, these programs offer a lot of entertainment for a child who still enjoys playing with Tonka toys in the sandbox. This Truck Pack is a good investment.

MSRP: \$19.99

From: Hasbro > [www.hasbro-interactive.com](http://www.hasbro-interactive.com)review 8 > **Beach Head 2000**

BY JOSEPH KUKELLA



BEACH HEAD 2000 IS ONE OF THOSE GAMES I'VE ALWAYS BEEN LOOKING FOR, BUT DIDN'T NOW I WANTED. IF WHAT YOU REALLY WANT TO DO IS GET DOWN TO THE DIRTY BUSINESS OF THROWING SOME SERIOUS LEAD DOWN RANGE, BEACH HEAD 2000 IS THE GAME FOR YOU.

**Briefing**

You are the lone defender of some non-descript beach front property that happens to be smack in the middle of a war zone. Your beach house is a reinforced concrete bunker with a rotating turret. The tools of your trade? How about a *twin-barreled 30mm anti-aircraft gun (AA)*, a *76mm anti-tank cannon (AT)*, a *heat-seeking missile launcher* and a *personal side-arm* for those last ditch moments (*save the final round for yourself*).

Arrayed against you is a formidable foe armed with tanks, armored personnel carriers, helicopter gunships, fighter bombers and heavy bombers. Your job is easy. Knock down anything that comes near you.

**Graphics**

The graphics are nicely rendered and at maximum resolution on a 400mHz PowerBook there were fairly few hiccups in the gameplay.

The sound is of quality as well. The guns have a reassuring thud to them and explosions are suitably violent.

**Recommendation**

I'd recommend it for your game collection. It's the one I turn to in the middle of the day for a bit of distraction.

Price: 19.99

From: MacSoft > [www.wizworks.com](http://www.wizworks.com)



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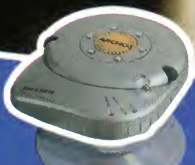
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949.453.1121

Compatible with:





## review 9 &gt; Mac Kids Pack

BY HAROLD GUNTHER

MAC KIDS PACK (PROGRAMS BY, MACSOFT AND HASBRO) THIS FOUR PACK OF CDs WILL KEEP KIDS ENTERTAINED AND LEARNING FOR HOURS. ALL FOUR TITLES COULD STAND ALONE, BUT AS A PACKAGE, THEY BECOME A MUST HAVE FOR HOUSEHOLDS WITH CHILDREN AGES 4 AND UP.

**Candy Land Adventure** is quite entertaining for the same age group as the board game, and perhaps a little older. The game is playable at two levels - singles or teams. The object is to solve puzzles, win prizes and help rescue King Kandy. Players must visit each of the areas on the board to win rewards. This is a great game for young players to learn turn taking and problem solving. Some adult aid may be needed for the "Match the Letter" game. If attention wanes, games may be saved at any stage and easily resumed.



**Mr. Potato Head Saves Veggie Valley** is an imaginative tale in which Mr. Potato Head and Sweet Potato must solve the problem of getting rain to Veggie Valley. There are two levels of play to accommodate more players.

**Play-Doh Creations** allows all the fun of playing with Play-Doh without having to worry about bits and pieces falling onto the floor. Your child's imagination and creativity will be exercised with this software. Many tools are available to help in the making. Creations may be saved, modified, rotated, moved about, pushed, pulled, punched, expanded, shrunk and made to act in theater presentations.



**Playskool Puzzles** consists of five different games - *Mix and Match* - *Explore It* - *Connect the Dots* - *Jigsaw* and *Puzzle Maker*. In this program there are three levels of play. At the easy level, puzzles have up to five pieces, medium level up to nine pieces and at the hard level they have up to 15 pieces.

**Mix and Match** allows the creation of characters by mixing and matching a large selection of body parts. The Toolbox is available to customize the colors of the character.



**Explore It** allows a child to solve a puzzle then explore several layers within the puzzle. Objects within a solved puzzle become available for examination. When the final layer is reached, the solved puzzle can be customized and saved.

**Connect the Dots** is much like you remember. Select a difficulty level and use a tool to connect the dots. Click on the dots in the proper sequence (1,2,3 or a,b,c) and the picture appears.

**Jigsaw** enables a player to assemble puzzles and to color them. Click and drag the pieces into place to assemble the picture. When completed, the tools to color the picture appear.

**Puzzle Maker** provides a canvas to create a picture and three tools to cut it into pieces. The pieces may be cut smoothly with a circular saw tool, jigsaw cut with a hand saw or jaggedly cut with a hammer. The pieces are then blown apart by a whirlwind. Reassembly is rewarded with music and sound.

A well written manual accompanies the programs, which shows parents how to enhance the playing experience for younger players.

#### Requirements

Computer: Macintosh 98030/25MHz or faster  
Operating System: MacOS 7.0 or newer  
Ram: 8MB

Mac Kids Pac Available at retail outlets / online  
MSRP: \$19.99  
From: Hasbro > [www.hasbro-interactive.com](http://www.hasbro-interactive.com)



# Macally Game Controllers

## FORCE FEEDBACK

### iShock II

Macally iShock II is the first USB game controller for Mac with FORCE FEEDBACK. iShock II is packed with 13 fully programmable buttons, dual thumb sticks, 8 way directional button and realistic multi-level vibration into one awesome unit.

iShock II supports both InputSprocket and non-Input Sprocket games and its an ideal choice for Mac gamers who wants to feel every bump and turn in their games. Get the first **FORCE FEEDBACK** game controller for Macintosh on the market and let iShock II take you to a higher level of fun and excitement.



### AirStick

Macally USB mid-air AirStick is a fully programmable joystick with an advanced, motion-tracking tilt sensor. AirStick's 2 in 1 design (game controller and joystick) enables gamers to control game activities in mid-air, quickly and easily without limitation of desktop space. Enhance your gaming experience with Macally AirStick.



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[ apple: next generation ]

Titanium

**MacWorld Expo** > The West coast was the place to be seen... MacDirectory hosted a few events at Moscone Center in San Francisco—featuring an eye-popping banner, sweepstakes and a booth where over 3,000 loyal new subscribers were welcomed >

images by Rick Carroll

[ the leather look at ATI's booth ]

115



[ Jonathan Seff &amp; Kelly Lunsford at the Eddy's Awards ]

[ the party gets wild at macworld ]



[ my imovie ]



[ steve jobs on the move ]

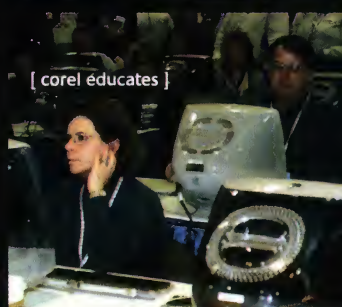
[ keep your eye on the ball ]



[ new sexy slim girl ]



[ corel educates ]



[ intel and apple still together ]



[ anchors away at macworld ]



[ Macromedia Eddy Winner ]



[ John Delancie at the Eddy's ]





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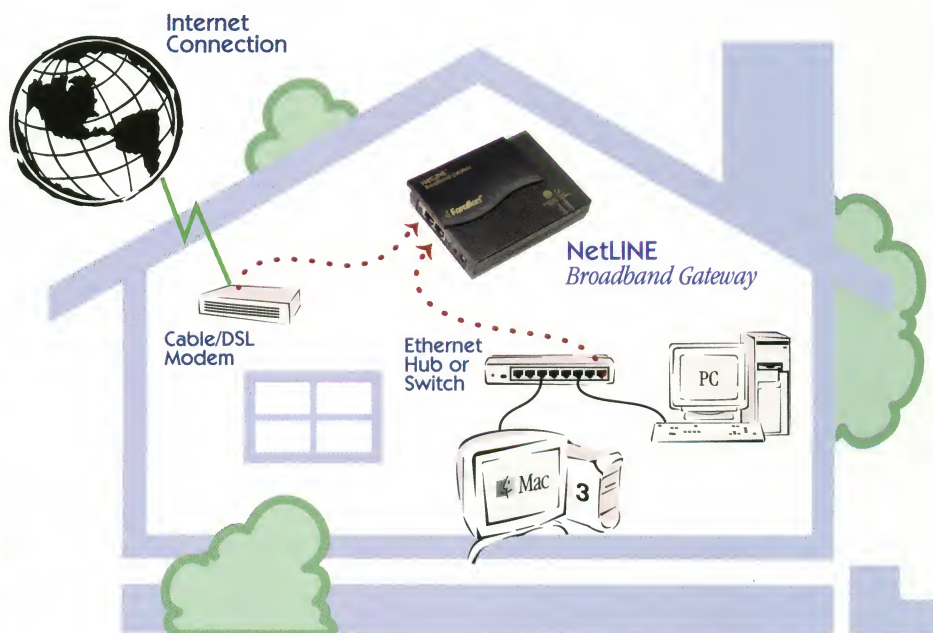
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[ honey, I shrunk the iMac ]



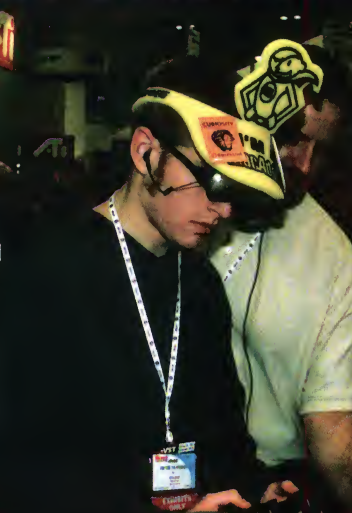
[ critter cams are running loose ]



[ maxon's team new love affair ]



[ virtual cool shades ]



A record of over 93,000 people attended the Macworld in San Francisco making it the largest gathering of Mac fans ever.

"The record crowd underscores the Mac's incredible appeal among consumers and professionals," said Charlie Greco, president and CEO of IDG.

A record attendance, more than a quarter million people tuned into the live QuickTime stream of the Macworld keynote delivered by Steve Jobs, Apple's CEO.



[ hungry? eat me ]



[ Steve Jobs keynote ]



[ microsoft keynote ]



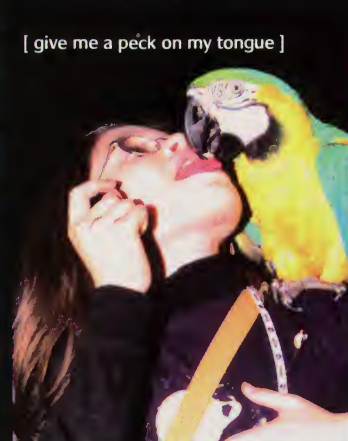
[ test driving the new powerbook ]



[ Michael Pilmer heavy metal mac ]



[ Mary Deno talks Pam ]



[ give me a peck on my tongue ]



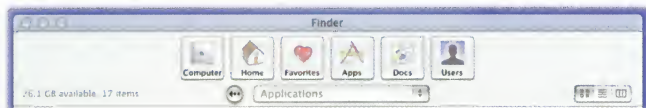
# Are you ready for OS X?

## The evolution revolution

As fellow Mac enthusiasts, we're excited about the first completely new operating system to come from Apple since it introduced the Macintosh. From the liquid look of Aqua to the advanced technologies of Darwin, Mac OS X is engineered for stability, reliability and phenomenal performance. Best of all, it still features the familiar Apple menu we all love. Here's a few of the new features we find most interesting.

## The Aqua interface

The new Aqua interface brings your Mac to life with color, depth and fluid motion. And while great to look at, Aqua keeps you informed of the activity status of your Mac. The new Dock sits at the bottom of your screen to give you instant access to folders, applications, storage devices, links, QuickTime movies, minimized windows and more. The Dock icons show current information, including "you've got mail" and what applications are running. Plus, the new Finder gives you three different options for viewing your file system. In addition to the popular list and icon views, the new "column" view makes it easier to navigate deep file systems and see what's in them at a glance.



## Extreme Internet

Mac OS X is the first modern operating system built for the Internet. It's designed to give you a faster, easier way to get online – and do more when you get there. It combines a host of powerful features and technologies like: iTools, Sherlock and automatic updates. Plus, you can use new iTunes software to listen to hundreds of Internet streaming radio stations.



## QuickTime TV

This visual dynamic allows you to display live streaming online events, play your favorite MP3 music tracks, or create your own videos. Mac OS X includes QuickTime technology, the unifying format and platform for multi-source, multi-destination content creation and viewing in the digital age.



Available  
for purchase  
March 24, 2001

New Aqua Dock keeps you informed of activity status.





# We are.



## Graphics display power boosters

Mac OS X combines QuickTime, Quartz and OpenGL – three of the most powerful graphics technologies – to take Mac's graphics capabilities beyond anything ever displayed on a desktop. Quartz – the powerful new 2D graphics system – delivers on-the-fly rendering, anti-aliasing and compositing of PostScript strength graphics with pristine quality. Integrated OpenGL – the blistering hot 3D technology – makes Mac OS X the ultimate platform for 3D games and eye-popping photorealistic graphics. So, whether you're creating graphics or viewing DVDs you've burned using new iDVD software and your new Power Mac G4, Mac OS X ensures exceptional multimedia performance.

## A new palette of creative tools

Built-in support for PDF allows you to embed and manipulate PDF data – and even *Save to PDF* – with any Mac OS X application. Easily create Quartz-enhanced, graphic-rich documents that you can share with anyone. And since this capability is available to all Mac OS X applications, Macintosh developers have a whole new selection of creative tools.



## Darwin and Frameworks

At the core of Mac OS X is Darwin, the code that keeps you running day in and day out. Darwin incorporates industry-standard networking and full support for AppleTalk. It protects your information from loss or corruption with a robust protected memory architecture. And delivers advanced device support to quickly move large chunks of data. Plus, since you need an OS that can handle several tasks at once, Darwin features preemptive multitasking to maximize your system performance.

The Mac OS X framework allows you to run the Mac OS 9 applications available today. And it runs on Macs from the earliest iMacs forward. So you can get the software and hardware you need now and know that they will work with Mac OS X. Its framework also simplifies the development of applications. So you can rest easy knowing that more software makers than ever will bring great software to the Mac platform.

## Mac OS X support

With many applications announced during the week of the Macworld Expo 2001 and hundreds more on the way, Mac OS X continues to gain the commitment of software developers.



FileMaker.

"The combination of the rich Aqua interface and very robust performance delivered by Mac OS X will let us create the best generation of FileMaker software yet." – *Dominique Goupil, President of FileMaker.*

"Adobe InDesign's superior page layout and design capabilities, combined with the powerful graphic technologies in Mac OS X, will set the standard for desktop publishing." – *Bruce Chizen, President of Adobe Systems.*



"Mac OS X is going to be one of the best platforms for doing Web development." – *Macromedia's Tony Campitelli during Steve Job's Seybold keynote*

"Microsoft will continue to innovate on the Macintosh platform by providing Mac OS X applications that offer features not found in the Windows versions of our products." – *Kevin Browne, General Manager of Microsoft's Macintosh Business Unit*

**Microsoft®**



"We anticipate that the robust printing architecture of Mac OS X coupled with our image quality will prove to be a powerful combination." – *Dan Crane, Vice President, Marketing, Epson*

## Our golden advice

Our Mac Zone® sales team has earned Apple Learn and Earn Gold Certification. Ask us about Mac OS X and hardware or software compatibility. Ask us about interoperability with existing Macintosh networks. Ask us about new Mac software. We're ready with the answers and we're thrilled to bring you Mac OS X. Call us today.

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# We're here to help you take

## Your Guide to Mac OS X Solutions

Our Mac Zone® team will help you dive right into Mac OS X. We'll bring you a complete selection of Mac OS X-ready hardware and software products. We have the latest Mac products at the best prices – from the new Apple® Power Mac G4 and PowerBook G4 to award-winning software, including Adobe® Photoshop 6.0 and Microsoft® Office 2001.

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Power Mac G4 533/40GB	#130735	\$2194 <sup>98</sup>
Power Mac G4 667/60GB	#130734	\$2794 <sup>98</sup>
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Take a high-performance PowerPC G4 processor, add a 15.2" mega-wide display, and enclose it all in a lightweight titanium case. Apple has just created the PowerBook G4 – and redefined portable computing again. If you need the utmost power for creative design, business or education, the PowerBook G4 is ready to provide it wherever you go.

PowerBook G4 400/10GB/128MB	#130731	\$2594 <sup>98</sup>
PowerBook G4 500/20GB/256MB	#130730	\$3494 <sup>98</sup>



### Simple power

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iMac DV SE 500 Graphite	#124918	\$1494 <sup>98</sup>
iBook SE 466 Graphite	#116012	\$1794 <sup>98</sup>

### A desktop space saver

A clear choice for super-computing power is the Power Mac G4 Cube.

Power Mac G4 Cube 500	#124926	\$1494 <sup>98</sup>
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Apple Cinema Display  
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# X

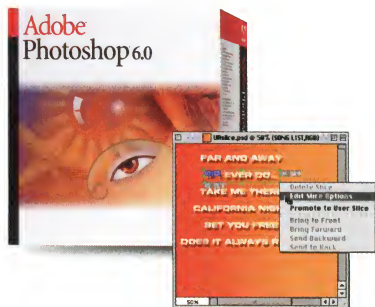
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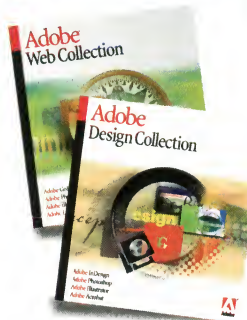
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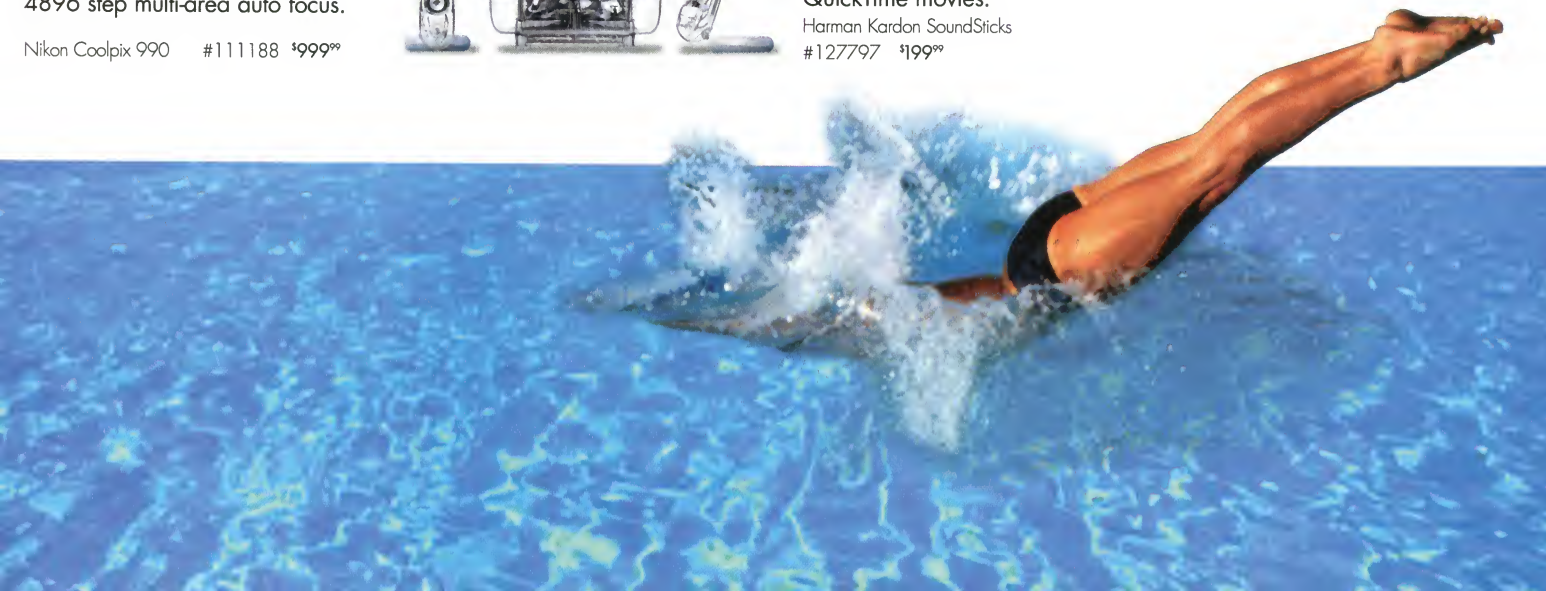
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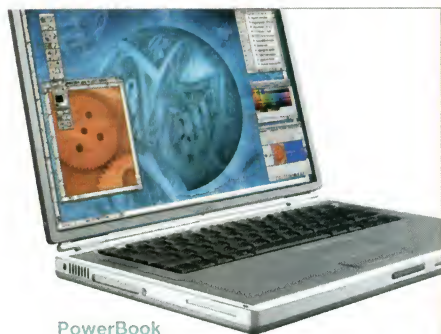
Your organization needs more than just computers. It needs a one-stop TOTAL SOLUTION for all your computer needs, including:

- **A Superior Selection** of leading name brand computer products.
- **Personal Account Managers** that serve as your dedicated portal for all the services and products we offer.
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PowerBook G4s



iMacs



G4 Cubes



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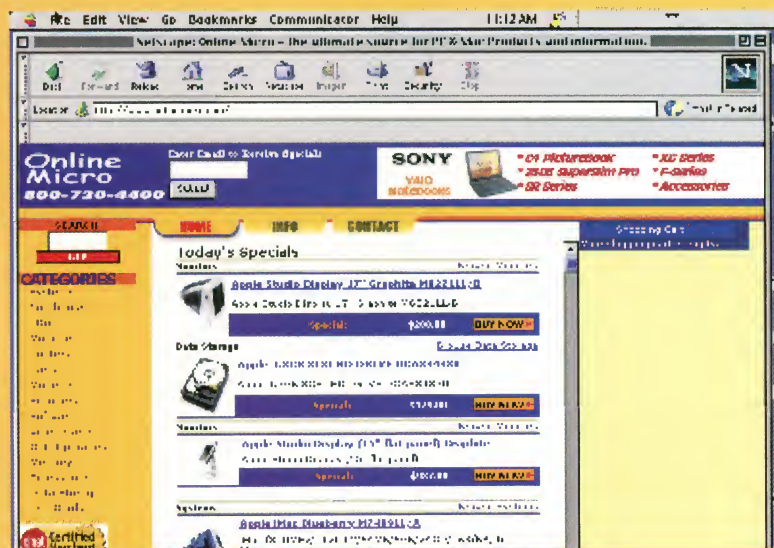
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Your wife yells at you to take out the garbage.  
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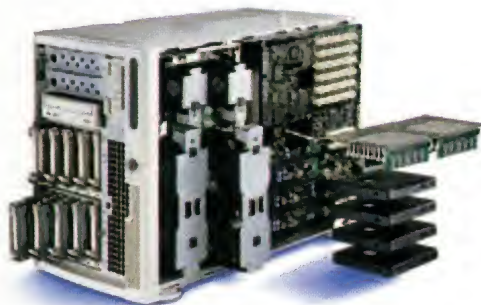


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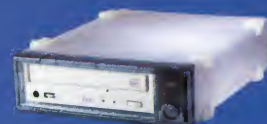
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Mac Addict, July 2000

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- 32 MB SSFDC
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- Holds SmartMedia and Compact Flash
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D-360.....Call  
C-211.....Call

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- Nikons New 3.34Megapixel Entry Featuring a Superb quality
- 2048 X 1536 resolution
- 3X Zoom
- Exclusive 256 Elements Matrix Metering with Outstanding Exposure

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##### Coolpix 880

- 3.34 Megapixel CCD w/true image resolution of 2048x1536 for easy cropping
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New D1 Pro Digital SLR.....In Stock

Coolpix 950.....Call

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- 2160x1440 Resolution
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- 28-84mm Zoom Lens USB Port Close up Mode, Program Aperture Shutter or Manual Compensation

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- 1792x1184 Resolution
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- 1.5" LCD Monitor
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- USB Port

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DC-5000.....In Stock  
DC-3400.....In Stock  
DC-215.....In Stock

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##### MVC-CD1000



- 1600 x 1200 resolution
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- 10X Optical Zoom Lens
- New Optical Super Steady Shot System

**Optical Storage**

##### MVC-FD90



- 1472x1104 Resolution 1.6 Pixels
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- 8X Optical Zoom (41-328mm Zoom Lens) \* Floppy Disc Storage Media or Memory Stick w/Optional Adapter

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##### DSC-S70

- 3.34 Pixel Super CCD Sensor
- 2048 x 1536 Resolution
- 4MB Memory Stick Included
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- 3x Optical Zoom
- 6x Digital Zoom
- 4" Macro



##### DSC-F505V

- 2240x1680 Resolution 3.7 Pixels
- 2" LCD Monitor
- 5X Optical Zoom Carl Zeiss Lens
- 38-190mm Zoom Lens



DSC-S50.....Call  
DSC-P1.....Call

Mavica FD-73.....Call  
Mavica FD-95.....Call  
DSC-S50.....Call

#### Canon

##### Powershot S-100 Zoom



- 1600x1200 resolution
- 1.8" TFT LCD display
- 2X/4X digital zoom
- Built-in flash
- Built-in high-speed USB interface



##### Powershot G-1

- 1600x1200 resolution
- 1.8" TFT LCD display
- 2X/4X digital zoom
- Built-in flash
- Built-in high-speed USB interface



#### FUJIFILM

##### FINE PIX 4900



- 2.4 Mega Pixel Super CD
- 6x Aspherical Zoom Lens
- 1/4 to 1/2000 sec Shutter Speed
- TTL 64 Zone Metering



##### FINE PIX 4700

- 2.3 Million Mega Pixel
- 1800x1200 resolution
- 3x optical zoom (35-105mm)
- 2.5x digital telephoto mode
- Includes 8MB Smartmedia card



##### FINE PIX 40i

- Ultra compact metal body
- 4.3 million pixel \* USB Port
- Plays MP3 Audio
- Available in Metallic Silver or Blue



Finepix 1300.....Call  
Finepix 1400.....Call  
Finepix 2400.....Call

##### DCR VX-2000



- Sony's Newest & most Compact DV Camcorder
- 2 1/2" Touch Screen Precision Color LCD Monitor
- Precision Color View Finder (200,000 pixels)
- 12 or 14 Bit PCM Stereo w/Audio Dub Capability
- Carl Zeiss Vario-Sonar lens
- 18x optical / 120x digital zoom
- Steadysight Image Stabilizer



##### DCR PC-100/110

- Digital Video Recording
- Mega-Pixel CCD
- Carl Zeiss Vario-Sonar Lens
- 18x Optical / 120x Precision Digital zoom
- 2.5" Precision SwivelScreen LCD Display (200K Pixels)
- Viewfinder (180K pixels)
- Precision Color View Finder (180,000 Pixels)



##### DCR PC-5

- Palm-Sized ReadyCam Camcorder
- 2.5" SwivelScreen LCD Display
- Super Steadysight Picture Stabilization
- AccuPower Battery System
- Stereo Sound with Audio Dub Capability
- 18x optical / 120x digital zoom
- Carl Zeiss Optics



##### DCR TRV-20/11

- 18x Optical / 120x Digital zoom
- Analog Recording Capability
- Color View Finder 180,000 Pixels
- Optical Super Steadysight Stabilization System
- Progressive Scan CCD mode
- LaserLink wireless Connection
- Memory made for still image capture



##### DCR TRV-820/720/520

- 25x optical And 450x digital zoom lens. Hyper precision CCD with 440,000 pixels captures more detail and sharpness even at full zoom.
- Photo mode captures a still image with seven seconds of audio for narration of still images
- Bar Trv 520: Has a large 3.5" viewfinder. Up to 14 hours recording with optional BP-F960 battery.
- Bar Trv 720: Has a 4" LCD display. 115,000 pixel resolution Color
- Bar Trv 820: Same as 720 with built in printer

#### Canon

##### XL-1

- 3-CCD DV Camcorder with Interchangeable Lens Mount System
- 16X Optical Zoom w/ SuperZoom Image Stabilizer
- Normal Movie mode
- Hi-resolution stop action movie & Digital Still Modes



##### GL-1

- Professional Quality L-Series Fluorite Lens For Remarkable Images
- 20x Digital Zoom with 100x Digital Zoom Provides Supreme Clarity - 3 CCD Image Sensors with Pixel Shift Advance
- Outstanding Detail - Optical Image Stabilization Corrects Camera Shake Instantly - 3 Shooting Modes Accommodate any Recording Need



##### Elura 2MC

- 10x Optical / 40x Digital Zoom Lens
- Optical Image Stabilization
- 2.5" Color LCD View Screen
- Color View Finder \* PCM Stereo
- Utilizes Multimedia Cards for Digital Still Pictures

##### Optura P1

Optura P1.....Call

##### ZR-10

- 18x Optical Zoom \* 200x Digital Zoom \* 2.5" Flexible LCD Viewscreen & Color Viewfinder \* Long Time Recording \* Digital Effects \* Digital Effects

##### JVC

##### GRDVL-9800U

- 4" Color LCD monitor
- 500 lines of horizontal & 480 lines of vertical resolution
- 101 Optical Hyper Zoom
- 200x Super Frame Digital Zoom

##### GRDV-M90/80

- Multimedia Interface \* 18x Optical Hyper Zoom
- 2.5" High Resolution LCD monitor \* 25x Digital Zoom
- High resolution color view finder
- Digital recording for superior picture & sound

##### GR-DVL-M300/500/505/805

#### EPSON

##### Stylus Photo 2000P



- Professional, Archival quality fine art photo printer w/1440x720 PPI resolution, print sizes up to 13"x19" and panorama to 13"x44" Print life rated at 200 years. Includes roll paper holder.

**CALL**

##### Stylus Photo 1270

EPSON Stylus Photo 1270 ink jet printer delivers posters and panoramic of 13"x44" in high resolution 1440 x 720 dpi. Included software is EPSON Adobe Photoshop 5.0 LE and valuable plug-ins.

Stylus Photo 2000P.....Call  
Stylus Photo 750.....Call  
Stylus Photo 875DC.....Call

#### OLYMPUS

##### P-330N



**CALL**

##### P-400



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#### Canon Photo & Digital Printers

#### SCANNERS

#### Nikon

##### LS-2000



- Fast, with average scan times of 20 seconds at 2700 dpi optical resolution
- Dynamic range of 3.6 is highest available in a desktop film scanner \* Multi-Sample Scanning feature gives you the quality of a drum scanner on your desktop
- Allows users to work in RGB, CMYK, Lch and RGB color spaces
- Not swappable adapters allows switching between film types without resetting scanners or software

LS-30.....Call

LS-4500.....Call

#### MINOLTA



##### Dimage Scan Elite

- Scans both 35mm sleeves and mounted, positive and negative films in color and black & white
- Optional Aps adapter is available
- 2,820 dpi optical resolution
- 3.6 wide dynamic range
- 12-bit Ad Conversion producing 36-bit color
- Digital ICE correction Enhanceance \* Adobe Photoshop LE included \* Available for Mac and Windows

New Scan Dual II.....Call

New Scan Multi II.....Call

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- Uses state of the art Xenon lamps for "even more" light and increases image clarity \* High resolution 2720 dpi optical resolution \* Scans as fast as 13 seconds per frame \* Includes Adobe Photoshop LE

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### Epicenter Technologies

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256-533-9128  
<http://users.aol.com/djohn4077/Epicenter.html>  
Software development for engineering/CAE applications (Java, C++), Instrument drivers (Labview, LabWindows, & CVI), Quicktime/MPEG video (Adobe Premiere 4.0), Database design (custom, Hypercard, & FileMaker Pro)

## Alaska

### Datapro Computer Services, LLC

Anchorage  
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<http://www.dataprocpu.com>  
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### Custom Digital Systems Group Inc.

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<http://www.granite-ridge.com>  
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415-459-7991  
<http://www.infoasis.com>  
Infoasis is an Internet service provider and MacOS consulting company. We offer a diverse range of Internet connectivity services: T-1, frame-relay, ISDN hookups, modem dial-ups and networking consulting services, as well as Filemaker Pro database hosting, web site and domain name services.

**Mac Edge Consulting**

Walnut Creek  
510-210-1347  
<http://pwp.value.net/allright>  
Mac Edge Consulting specializes in the development, updating, and maintenance of Filemaker Pro databases for business and home on Macintosh, Windows, and NT. We also provide upgrades, troubleshooting, installation,

tutoring and data recovery services.

**macVolks**

Martinez  
925-313-0760  
<http://www.macvolks.com>  
macVolks provides a wide range of services to help you get the most out of your computer system. These include custom database programmes, Network design and troubleshooting, consulting, and training. macVolks serves the greater California Bay Area, from Sacramento to San Jose.

**Mark/Space Softworks**

San Jose  
408-293-7299  
<http://www.markspace.com>  
Publishers of data communications and wireless messaging software for MacOS, Windows and PalmOS. PageNOW!, PageME! Construction Kit, Communicate Lite.

**Natann**

Pleasant Hill  
925 944 1818  
<http://www.natann.com>  
We provide on-site Macintosh consulting, installations, network design, troubleshooting, Internet solutions. Expertise includes cross platform solution with Windows and NT Server, FileMaker Development and the Printing Industry.

**Outside Technology**

San Anselmo  
415-488-4909  
<http://www.outsidetech.com>  
Expert custom database development. Author and publisher of Book'em!, the automated reservation system.

**Pallium**

Sunnyvale  
408-734-4455  
<http://www.pallium.com>  
Pallium can help you architect your application, either before initial development or with a mature product. Pallium's specialty is the application of deep plug-in architecture, which is similar to plug-in software architectures you may be familiar with but goes much farther.

**WebWare Corporation**

Sausalito  
415-339-8580  
<http://www.webwarecorp.com>  
WebWare's MAMBO(TM) and MAMBO (TM) Hosted Services are your leading Brand Resource Management(TM) (BRM) solutions. MAMBO(TM) maintains brand asset integrity throughout the branding supply chain -- from creation to distribution.

**Colorado**

**4Translation, Inc.**

Highlands Ranch  
303-683-5084  
<http://www.4translation.com>  
Full service language translation at the speed of the Internet. Accurate translations, using industry knowledgeable, native language translators. All projects fully edited, reformatted to fit the original graphics and returned to you electronically.



**DataCraft**

Lakewood  
303-232-4321  
<http://www.DataCraft-Inc.com>

DataCraft specializes in providing custom software solutions for business. Areas of expertise include contact management, client & lead tracking, inventory control, database publishing (print or Web), custom printing solutions, bar codes, and magnetic strip readers.

**MacSense**

Littleton  
303-792-5887  
Macintosh consulting and troubleshooting at the most reasonable prices.

**MediaLinx, Inc.**

Englewood  
303-792-9868  
<http://www.mlinx.com>  
MediaLinx offers system integration and production services for the multimedia, web, interactive and print markets. From enterprise level system integration and workflow analysis to web site and cdrom development.

**Rapid Remedies Inc.**

Boulder  
303-449-5159  
<http://www.rapidremedies.com>  
Rapid Remedies Inc. specializes in Macintosh troubleshooting and upgrades. Primary services are of an urgent or emergency nature, in order to get clients up and running as quickly as possible. Secondary services include regular maintenance in order to prevent system failures resulting in emergencies.

**Total Recall Data Recovery**

Colorado Springs  
800-743-0594  
<http://www.totalrecall.com>  
Data recovery from all rotating media and most operating systems. With 10 years in the data recovery business we have recovered data for thousands of clients all over the world.

**Connecticut****Acme Technologies**

Ridgefield  
203-431-1601  
<http://www.acmetech.com>  
We develop software products for AppleScript and Internet servers, as well as provide custom development services for database development, CGI programming, Java, and stand-alone Macintosh applications.

**Computer Seraph**

Northford  
203-484-7636  
<http://www.computerseraph.com>  
Computer Seraph provides a variety of consulting services, specializing in the data management needs of religious institutions. Recommendations, database configuration, data transfer, and training services are available.

**Evolution Interactive**

South Windsor  
860-436-4339  
<http://www.evolutioninteractive.com/>  
Evolution Interactive is a group of coders dedicated to

the development of next generation Macintosh games and real-time applications. We are hired guns providing consulting and development services to companies that want to push the limits of technology.

**McGowan Consulting Group, Inc.**

Seymour  
203-734-6019  
McGowan Consulting Group, Inc. (MCGinc), is a corporation specializing in client/server applications and multi-vendor network design, implementation, and integration.

**Washington DC****Folio, Inc.**

202-965-2410  
<http://www.foliophoto.com>  
Folio, Inc. is a stock photography agency established in Washington, DC in 1985. A large image collection of general subjects ranging from people, finance, health, business, education.

**Neal B. Johnson**

202-789-3170  
As a consultant I provide web content design and production services as well as high quality imaging services. Photoshop, Quark, Illustrator, VRML, Dreamweaver, and BBEdit are my main tools.

**Phil Shapiro**

202-686-5465  
<http://www.his.com/~pshapiro/>  
Training given to nonprofit community organizations, educators, families. Expertise in America Online, the Internet, educational software, web page building.

**Delaware****BKS Consulting Group**

Hockessin  
302-994-4855  
BKS Consulting Group is a consulting and training organization that specializes in all of the major Macintosh software: MS Office, FileMaker, ClarisWorks, Lotus Notes, etc.

**Crosstech Solutions, Inc.**

Newark  
302-738-4308  
<http://www.crosstechsolutions.com>  
Crosstech Solutions, Inc. is an Apple Authorized Macintosh support and service organization. Primary services include (but are not limited to) troubleshooting, document management, client training, network support and design, remote and local backup systems, and software and hardware solutions.

**Dragon's Run Engineering & Research, Inc.**

Newark  
302-731-2972  
<http://www.dragons.com/>  
With over 22 years of experience in microcomputers, the skill and commitment of our staff is outstanding. We are on-call 24 hours a day to support our customer's needs.

**Florida****DataForce Partners, Inc.**

Altamonte Springs  
407-788-0111

<http://www.dfpi.com/>  
We specialize in FileMaker Pro database development for all size companies, as well as integration into the web using Lasso technology. We are a Lasso hosting provider, with accomplished programmers available to aid with your needs.

**Digital Consulting**

Pembroke Pines  
954-629-6940  
<http://www.aosp-digital.com>  
Digital Consulting provides the highest level of professional support, consulting, training, and systems integration to the publishing industry. Specific service areas include: Advanced Photoshop Training, Advanced Color Management, Advanced QuarkXpress Training, Working with a Digital Workflow, and System design, purchasing, installation, and training.

**MacTech Inc.**

Jupiter  
561-745-4822  
<http://www.mactechfla.com>  
Mactech offering onsite consultation, repairs, upgrades, networking, connectivity, and training.

**MacTechnicians**

Winter Park  
407-622-4839  
<http://www.mactechnicians.com>  
MacTechnicians is a Macintosh software and hardware consulting company located in Orlando, Florida. Generally, we provide assistance to Central Florida business and home users.

**Georgia****Atticus, Inc.**

Lithonia  
770-922-5997  
Atticus, Inc. provides custom affordable application development for the small business community. Some less demanding applications are done using FileMaker Pro.

**Capricorn Enterprises/Caprient Designs**

Atlanta  
770-452-7440  
<http://www.capricorncreations.com/>  
We are an internet consulting firm dedicated to providing you with the optimum web site solutions. We can design, build, host, and promote your web site. We have a combined experience base of 15 years in Macintosh and PC computing.

**Informed Systems Group, Inc.**

Atlanta  
404-843-0306  
Informed Systems now offers their expert configuration services exclusively to the trade. In addition to our consulting services, we offer a line of pre-defined products which include books, shareware, pre-formatted tests, fax/file-on-demand technical support, emergency up and running configurations, and other products which the professional can use or resell under his or her firm's label.

**Laser Solutions, Inc.**

Atlanta  
770-992-3914  
<http://members.aol.com/lasersolut/>  
Laser Solutions, Inc., provides technical and creative

solutions for bridging the gap between the management of information and its communication and presentation. Our expertise includes development of custom database applications, integrated publishing solutions, systems integration, and consulting.

#### **Omne Consulting**

Suwanee

770-844-9948

<http://www.omne.com>

Omne Consulting provides systems design and integration consulting services to businesses in the Atlanta area. Our engineers and consultants are Microsoft, Novell, Citrix, and Vinca certified. We specialize in the integration of MacOS and Windows Systems.

#### **Hawaii**

##### **Aloha Computers**

Kailua-Kona

808-329-4271

For over five years we have been providing computer services ranging from instruction, troubleshooting, repairs, network design and installation, customized business and database solutions, to purchase support, upgrading and system sales.

##### **Island Mac**

Honolulu

808-521-5951

<http://www.island-mac.com>

Independent Macintosh Consultant with 12 years experience specializing in Graphics and Networking. Former chief consultant at San Diego Supercomputer Center on UCSD campus at La Jolla.

##### **Mac Made Easy, Inc.**

Honolulu

808-988-2665

<http://www.maceasy.com>

Authorized Apple Value Added Reseller & Authorized Apple Service Provider. We also do: Consulting, Macintosh Sales, Computer Repair both On-Site & at our Shop, AppleCare, Educational Software, Technical Support.

##### **Oahu Computers**

Honolulu

808-524-1111

<http://www.oahucomputers.com>

Provides Service & Repair on Apple, HP, Compaq, IBM manufactured equipment, in & out of warranty, no matter where you purchased it.

#### **Idaho**

##### **Brasure Software**

Boise

208-429-1466

<http://www.brasure.com>

I am a freelance programmer who specializes in porting software to the Macintosh. If your company is thinking about converting software to run on the Macintosh, then you have found the right person.

##### **Ednetics Incorporated**

Moscow

208-882-7758

<http://www.ednetics.com>

Education Service Provider

Network Design, Maintenance Contracts, Support

Contracts, System Analysis, Communication Systems, Custom Database Development. Educational Hardware and Software Sales.

#### **Illinois**

##### **CSPC INC.**

Sleepy Hollow

847-428-9262

We specialize in practical & affordable, Enterprise & Business Solutions for the small to medium sized organization. Including: Analysis, Training & Implementation, Accounting, Quality Systems, productivity, computer hardware, software, Networking, eMail, Inter & Intranets, Database, data protection & recovery.

##### **Digital Prairie, Inc.**

La Grange

800-603-6265

<http://www.digitalprairie.com/>

Web - Database - Consulting - Development

Digital Prairie has over 20 years experience developing software using state-of-the-art tools. We've got the knowledge you need.

##### **Hueser and Associates**

Chicago

312-649-0491

Over 25 years of systems experience in all size companies. Professional database development for Windows and Macintosh environments using Filemaker Pro. Experienced in Contact Management, Executive Recruiting, Real Estate and Finance.

##### **Kaizen Seamless Consulting**

Chicago

312-415-5623

Areas of expertise include client/server relational database applications development (Helix Express, FileMaker Pro and 4th Dimension), network design and support, systems integration, network administrator and end-user training.

##### **Pritikin Computer Services**

Chicago

773-973-4242

Got a problem? We are here to solve it for you. MacOS, hardware, software, servers, printers, scanners, modems—we do it all. We specialize in cross-platform (Mac to Win 9x or Win NT) and data migration issues.

##### **The Miller Group**

Springfield

217-789-4430

<http://www.miller-group.net>

Developer of HR3, Cobra3, HR3 Pro, The Miller Group is a consulting and professional services firm, working to help clients improve their business by exploiting Internet-based technologies to deploy customized Internet, intranet and extranet solutions.

##### **The Shulman Consultancy**

Highland Park

847-266-0564

Comprehensive knowledge of the Macintosh, its hardware and software and the microcomputer marketplace. Strong relationships with major hardware and software manufacturing companies and vendors. An available network of professional resources in Accounting, Graphic Design, Communications, Marketing, Insurance and Legal as well as Computer Technical Matters.

#### **Indiana**

##### **Abacus Computer Services, Inc.**

Indianapolis

317-290-0066

<http://www.abacuscomputers.com>

An Indiana company serving central Indiana for over 13 years. Dedicated to Government, Educational and Mid Size Commercial Businesses. We specialize in Compaq, HP, IBM, Tektronix, Acer and Apple computer solutions.

##### **Enterprise Design Services**

Westville

219-785-2352

EDS is a full service advertising agency dedicated to helping clients promote their business or service.

##### **Ken Jordan - Macintosh Computer Consultant**

Fort Wayne

219-485-6398

Apple-trained Macintosh consultant. Specializing in: - business and individual consulting; hardware and software troubleshooting, repair and maintenance; recommendations for hardware and software purchase; hardware and software setup and configuration.

##### **Mac Consulting & Services**

Bloomington

812-335-622

Mac Consulting & Services is a complete Macintosh support provider. We can help whenever you get in over your head or need advice,

##### **Objectic Systems, Inc.**

Franklin

317-738-0174

Objectic Systems, Inc. is a professional software development firm dedicated to providing Apple dedicated, and cross-platform, solutions to large businesses. Our emphasis is on Internet and database solutions and the design of related client software applications.

##### **Virtual Indiana**

Battle Ground

765-567-2220

<http://www.Virtual-Indiana.com>

Specializing in: Internet Consulting Services & Site Design and Delivery, Macintosh Configuration and Troubleshooting, Teaching Teachers to Effectively use Classroom Computer Technology, and Multimedia Project Design and Development.

#### **Iowa**

##### **Blocker Consulting**

Muscataine

309-239-4315

Serving Eastern Iowa and Western Illinois since 1995.

Service available 24 Hours a day. Reasonable rates, and speedy solutions. Professional on staff that has been working with Macs since day one.

##### **D C Consulting, Inc.**

Ankeny

515-964-9034

Keep track of your customers and prospects, find new ones, and make it easier than ever to work with them and satisfy their needs using sales automation and network solutions.



## Kansas

### Best Macs Computer Solutions

Lawrence  
785-550-7370  
<http://www.bestmacs.com>  
Northeast Kansas' top-notch source for Mac OS repair, maintenance, networking, installation, and upgrades. We're Apple certified and our work is guaranteed to be done right the first time.

### CompuMaster

Mission  
913-362-3900  
CompuMaster's vision is to be an international leader in technical training. We strive to provide quality training and vital technical information to customers.

### dbVisionWorks

Overland Park  
913-381-1843  
The mission of dbVisionWorks is to assist small to medium sized businesses by helping them to define their business, which in turn helps them to operate more efficiently, effectively and profitably through the use of custom database solutions.

## Kentucky

### Applied Arts Ltd.

Lexington  
606-225-1572  
<http://www.a2soft.com>  
Kentucky's #1 FileMaker Pro expert. FileMaker development, consulting, training, networking, remote management, advanced program integration, and internet web design.

### MacXpediter

Pikeville  
606-432-7201  
Mac Plus up to the Power PC, G3 services by contract. Various degrees of troubleshooting and problem solving capabilities that range from friendly e-mail advice up to a fully professional grade Operating System.

## Louisiana

### Joe Hyde

Haughton  
318-949-0680  
<http://www.jhyde.com>  
Unix and Apache web server administration/configuration. Photoshop/ Illustrator/ Acrobat/ PageMaker, Perl and CGI installation, HTML, all levels.

## Maine

### Brickhouse Computer Services

Gray  
207-657-4102  
<http://www.tiac.net/users/lizmac>  
We help clients choose, configure, and set up Macintosh computers. We specialize in Macintosh troubleshooting. We offer reasonable rates and individualized instruction. Our services are available in your home, office, or our office.

## Maryland

### Chesapeake Systems

Baltimore

410-243-1023  
<http://www.chesa.com>  
Chesapeake Systems is a Baltimore based service-oriented organization specializing in Macintosh sales and service and web site design.

### Foxglove Communications

Timonium  
410-453-0777  
<http://www.foxglove.net>  
We create New Media and print communications for business, industry, education and government. Our services includes print design and consulting, multimedia development, interactive software, website design, eCommerce, and online database solutions.

### Mac Support Solutions

Frederick  
301-662-0359  
[www.netcom.com/~gfisher1/macsupportsystems.html](http://www.netcom.com/~gfisher1/macsupportsystems.html)  
On-Site Setup, Training, Technical Support, Consulting, Internet Setup, Phone Support. Specializing in Apple Macintosh.

### MacMedics Baltimore

Millersville  
800-761-6227  
<http://www.macmedics.com>  
MacMedics is a regional Macintosh service and consulting firm. MacMedics specializes in the support of critical use Macintosh environments. We try to look beyond the current problem or issue so that we can address the problem from a base level.

### Q&A Consulting

Rockville  
301-770-7014  
<http://www.macqna.com>  
Q&A Consulting is a computer consulting service, specializing in Macintosh compatible computers. We cater mainly to the SOHO (Small Office/Home Office) user, in the Baltimore/Washington D.C. metropolitan areas.

### TechSupport, LLC.

Aberdeen  
410-273-0883  
[jciesla@techsupportme.com](mailto:jciesla@techsupportme.com)  
We want to work with you by: helping you make informed purchasing decisions; offering routine maintenance; and giving you unsurpassed support when you do run into a problem.

## Massachusetts

### Aptworks Consulting

Cambridge  
781-648-4782  
<http://www.aptworlks.com>  
Welcome to Aptworks Consulting. We specialize in FileMaker Pro database development and Web page design for businesses, schools, and individuals.

### Atlantic Associates

Sudbury  
978-443-0560  
<http://www.atlantic-associates.com>  
Atlantic Associates provides custom solutions to firms with Windows and Macintosh environments. Our services includes planning, design, development, installation, training and support.

### Boardwalk Software

Framingham  
508-877-3309  
<http://www.gansler.com>  
MacOS and Java custom software development, project management, and consulting. Clients have included Apple, Lotus, MIT, Polaroid, Scientific American Magazine, DEC, and JVC. Please visit [www.gansler.com](http://www.gansler.com) for my resume and letters of reference.

### EthanNET Technology Consulting

Brighton  
617-787-8870  
EthanNET provides Technology consulting services specializing in internet/intranet integration, focusing on Macintosh solutions. EthanNET staff possess extensive knowledge in the following: MacOS, Remote Access (Shiva, CISCO), LAN/WAN design (CISCO, FORE, BAY), WindowsNT.

### Mystic River Software

Arlington  
617-641-2828  
<http://www.mysticsoft.com/>  
Software development for Macintosh, Windows, and the Web. Technologies include: Electronic Imaging, Client/Server, Web Commerce.

## Michigan

### Access Computer Technologies

Grand Rapids  
616-456-6867  
Specializing in mac database and custom application development. We have experience connecting to specialized peripheral equipment, and printing/scanning bar codes in high-volume production environments.

### Big Apple Consulting Associates Inc.

Sault Ste. Marie  
705-942-8810  
Providing Macintosh services since 1984. Specializing in OS, software, hardware installations & upgrades training.

### Crittenden Consulting

Dexter  
734-426-4411  
<http://www.crittendenconsulting.com>  
We provide computer consulting, custom database programming, networking consulting, and website design services.

### Foresight Solutions, Inc.

Okemos  
517-381-2080  
<http://www.foresight.com/>  
Foresight Solutions specializes in developing business management applications and plug-in tools for database developers. Our flagship product, the A4(r) Business Management System, offers customers the best in accounting functionality and management features.

### supportTEX

Eastpointe  
810-771-6610  
<http://www.supporttex.com>  
supportTEX can help you with individual training, and technical support via telephone.

## Minnesota

### About Computing...

Minneapolis

612-379-0174

<http://www.aboutcomp.com/>

Mac system setup and maintenance, networking, remote access and Internet support. Mac-Windows integration and cross-platform software solutions.

### Babcock, Ltd.

Ham Lake

612-434-2375

<http://www.babcockltd.com>

We are a group of knowledgeable, dedicated professionals engaged in the business of custom software development. We can connect your corporate information to the internet through the world wide web.

### Midnight Mac

Maple Grove

763-494-0041

<http://www.midnightmac.com>

Midnight Mac, one of the first person-to-person online support and consulting companies to focus directly on the Macintosh community. The site promises to provide Macintosh users with a better way to receive technical support, consulting and training.

### ProDirect, Inc.

Bloomington

800-524-9952

<http://www.pdisales.com>

ProDirect's PowerSTOR Value hard drives are the storage solutions to turn to for any home user or professional. PowerSTOR Value is ProDirect's answer to the need for a Narrow SCSI storage solution for legacy Apple systems without a PCI bus.

### The Geek Squad

Minneapolis

612-343-GEEK

<http://www.geeksquad.com>

The Geek Squad is a 24 Hour Computer Support Task Force. With our focus solely on computer support and repair, we offer flat-rate pricing for carry-in, on-site or emergency service for everything from setups and installs to upgrades.

## Mississippi

### Pepperlans Productions

Tupelo

662-680-5683

Filemaker Pro Database development, applescript, Cad Work, Technical Instruction, Technical Writing, Desktop Publishing.

## Missouri

### AppleButter

Sullivan

573-468-2147

<http://www.applebutter.com>

We are a new company offering a variety of services to our clients. We provide service to clients in the following counties in Missouri: Franklin, Crawford, Gasconade and adjoining areas upon request.

## Insanely Great Macintosh Consulting Services

University City

314-862-1312

<http://www.insanelygreat.net>

We provide support for creative users. From training and setup for the less experienced to expert advice for those who need to get every ounce of power out of their Macs, Insanely Great has affordable services for all Mac users.

### Proteron, LLC

Kansas City

816-765-9383

<http://www.proteron.com>

We do web site development and internet/database interfacing, as well as online software publishing.

### The Mac Store

St Louis

314-453-9166

<http://www.macstore.com>

We are the Midwest's largest Macintosh only reseller and service center. You can purchase most of our products through our web site also.

## Montana

### Glacial Designs

Bozeman

406-582-0168

<http://www.glacial.com>

A new company started in the Bozeman/Belgrade area consisting of Mac and PC experts. Our primary focus is in web design, but we also provide Macintosh consulting at affordable prices.

### RAM Runners

Kalispell

406-257-9311

Authorized re-seller for Apple, Adobe, Macromedia, ViewSonice & more. Over 25 years combined experience. Specialize in DTP solutions.

## Nebraska

### Michael Margolies Consulting

Sidney

308-254-6694

Specialize in Publishing and graphics systems. Networking, system configurations, workflow management, training, business model consulting for Catalog publishers, Ad Agencies, Prepress vendors, Printers, graphic artists.

## Nevada

### GAMMA Productions

Reno

702-329-5258

<http://www.gammaprod.com>

GAMMA is a full service media development company, specializing in Web Design, Video/Audio Production, Interactive Multimedia, Animation, and Print Design.

### Hanley & Associates

Las Vegas

702-396-0697

Independant Macintosh Consulting Group with experience in website design, filemaker pro building, to purchase advise, system setup, troubleshooting, and minor hardware repair.

## ternal Software

Reno

775-857-3772

<http://members.xoom.com/Aeternal>

Aeternal Software specializes in custom Macintosh database design using the Visual FoxPro development environment. We also support 4D and FileMaker Pro, as well as design custom database solutions in C/C++.

## New Hampshire

### Concord Software, Inc.

Merrimack

603-880-8151

<http://www.concordsw.com>

C, C++ & Java for Macintosh platforms. We are releasing a new Server (Spartacus) based on XML with a JAVA Browser and Application Builder called Javelin. We are experienced in Windows NT and UNIX, and built several servers front-ending ORACLE, SYBASE and currently have a Server project under way for INFORMIX.

### Enigami

Londonderry

603 437 1337

<http://www.enigami.com>

Macintosh Software Engineering Consulting C/C++, MacApp, PowerPlant, User Interface Design, SCSI. Over 10 years experience programming Macintosh.

### Panoramac Consulting

Hanover

603-632-9048

Macintosh focused consulting.

Providing the full range of consulting services, from general upgrade and purchase information to complete office layout and installation.

### QED Technologies

Nashua

603 882-0810

<http://www.qedtechnologies.com/>

Contract Macintosh programming services. Developers of credit profiler and credit reporting software for Macintosh.

## New Jersey

### Data Concepts Info. Tech. Corp. (DCIT)

Ridgefield

212-714-7734

<http://www.deccaNet.com>

DataConcepts Info. Tech. Corp., provides the full scope of services associated with custom solutions development including operations and needs analysis, system design, software development, hardware configuration, installation, training, support and maintenance for small, medium, and large businesses and professional offices.

### Intrface Consulting

Montville

973-263-5300

<http://www.intrface.net>

INTRFACE Specializes in the networking of Mac OS machines, Windows machines, Dos machines, and Unix machines in a LAN(Local Area Network), WAN(Wide Area Network), or both. We specialize in high traffic networking.



**MacSultants**

Moorestown  
609-273-3255

<http://www.macsultants.com>

Founded in 1990, we are specialists in color pre-press, publishing, networking, communications, internet and intranet connectivity. We provide sales, support and training on all Mac applications.

**MZachary Consulting**

Hoboken  
917-696-5656

<http://www.mzachary.com/mzachary.html>

MZachary Consulting specializes in complete systems integration for all Macintosh and Mac/NT cross-platform environments ranging from single-user systems to multi-user corporate LAN/WAN topologies.

**Prodigal Systems Consulting Group**

Long Branch  
908-571-4537

Macintosh Systems Integration, consultants for wiring, installation of 10bT networks, Macintosh Troubleshooting and Upgrading.

**RMS Consulting, LLC**

Saddle River  
201-236-2515

<http://www.rmsconsult.com>

RMS Consulting, LLC based in Saddle River, New Jersey is a full service IT consulting firm. Our clients are primarily Wall Street firms and the Fortune 500 companies that are based in NY / NJ / CN area.

**New Mexico****Black Rock Mac Consultants**

Santa Fe  
505-466-8094

<http://www.blackrockmac.com/>

Black Rock Mac Services include: Help with Macintosh system selection & set-up, Training in all aspects of Mac ownership, Updating system software, Troubleshooting hard disk, system, and most software problems, Page Layout, desktop publishing and design, Programming & scripting, and Database development.

**Sigma 4, Inc.**

Las Cruces  
505-382-8799

<http://www.sigma4.com>

Sigma 4 primarily offers Consulting Services on the Apple Macintosh Platform, custom database development using 4D by ACI, and custom software development using many of the development environments available for the Macintosh.

**SUBIA**

Albuquerque  
505-345-2636

<http://www.subia.com>

SUBIA is a full-service graphics resource in Albuquerque, NM. SUBIA specializes in electronic pre-press, short-run on-demand digital color printing, graphic design and production, presentation graphics, multi-media and World Wide Web page and graphic design.

**New York****A to A Graphic Services, Inc.**

New York  
212-229-0300

<http://www.a2a.com>

A to A Graphic Services, Inc. is a full-service production company providing advertising agencies, graphic designers, publications, corporations and the entertainment industry with typography, prepress services, custom color proofing, wide-format proofing, digital file transfer and digital asset management.

**Association of Graphic Communications**

New York  
212-279-2104

<http://www.agcomm.org>

AGC provides individuals and organizations in New York, Long Island and New Jersey with career guidance, up-to-date industry-specific education and professional development training conducted by the top practicing professionals in graphic communications.

**Computer ER**

New York  
212-317-9233

<http://www.computerer.com>

As a complete solutions provider, Computer ER serves as a single point of contact for all computer issues, from hardware to software, networking to computer repair.

**Infohouse, Inc. (Network Plus)**

New York  
212-220-4242

<http://www.infohouse.com>

Manhattan's oldest Mac Specialist since 1995.

Dial-Up Services Offered : 56k Rockwell (flex), ISDN

Dedicated Access Services Offered : 56K, FracT1, T1, Frame Relay. Other Services : Real Audio, iCat, FrontPage, Cold Fusion. Fees : Dial Up PPP \$20/Month, Virtual Domain WWW hosting

**J.U.M.P.I. Inc.**

New York  
212-741-4931 741-4931

<http://www.jumpspace.com>

We pride ourselves in knowing a lot about computer technology, how it works, why it doesn't, and how to fix any problem with software, hardware, or networks. We also understand how to solve problems that arise as a result of interbreeding of platforms in a business environment.

**n24x7 Corp.**

New York  
888-my n24x7, 212 242 5100

<http://www.n24x7.com>

n24x7 Corp. has an expanded services offering that include complete computer networking services to businesses requiring technology experts. Services include network design that enables businesses to improve productivity with optimized data-flow throughout an organization.

**Novaworks Computer Systems, Inc.**

New York  
212-604-9999

<http://www.novaworks.com>

Novaworks Computer Systems, Inc. has been a leading supplier of computer systems and computer services since 1987. We design and sell systems for digital video, graphics, publishing and design. Our offerings include on-site service and software contracts, networks, servers and more.

**Seven Staffing**

New York  
212-254-8600

<http://www.sevenstaffing.com>

We're a temporary and permanent staffing company in New York. We can help you with: Print, Web, Tech Support, Presentations, Word Processing, Administrative, Design, Production... and more!

**Tekserve**

New York  
212-929-3645

<http://www.tekserve.com>

What we do... Carry-in service, repair and upgrade of Macintosh Computers, both in and out of warranty. Most upgrades and some repairs are completed while you wait. Recover data at low fixed prices.

**United Digital Artists/Apple Market Center**

New York  
212-777-7200

<http://www.uda.com>

United Digital Artists is the nation's premier new media and Web training and consulting company, comprised of hundreds of first-rate instructors, consultants, programmers and artists, digital photographers, designers, musicians, writers, videographers, CD-ROM and Web developers engaged in the creation of interactive products and Internet services.

**North Carolina****After Hours Consulting**

Raleigh  
919-271-7479

<http://home.att.net/~afterhoursconsulting/>

Macintosh contract system administration, buyers advocacy, repair, troubleshooting and training for the North Carolina Triangle region.

**Cicada Consulting Group, Inc.**

Raleigh  
919-664-8086

<http://www.cicada.com/>

Cicada Consulting Group is a networking and system design consulting firm. We specialize in creative and technical aspects of database, network and website design. We are proponents of Macintosh-, NeXT- and Be-based work environments.

**Cox Consulting**

Wilmington  
910-350-8018

I am a free-lance education consultant. My areas of expertise are: Macintosh educational training and consulting. Training in :Clarworks, Hyperstudio, MSWorks, Intro to the Mac, Advanced Mac Skills, Classroom Publishing, Integration of technology into the Curriculum, additional educational software training.

**Everything Macintosh**

Zebulon  
919-404-0222

<http://everythingmacintosh.com>

We specialize in troubleshooting Macs and networks, and since the majority of problems experienced by users have their roots in the software, we have expertise in all common software packages as well as the MacOS.

**Hughes Consulting**

Carrboro  
800-926-2494

<http://www.pamelahughes.com>  
Specialists in Macintosh and cross platform Accounting, E-Commerce and Manufacturing Systems - Sales, Implementation, Training and Support.

## North Dakota

### Corporate Technologies

Fargo  
701-277-0011  
<http://www.corptechnologies.com>  
We offer assistance in purchasing of new computers, setting up and configuring computers, installing networks, cross-platform connectivity and post-sale support.

## Ohio

### Creative Consulting Services

Amherst  
440-985-1735  
<http://www.ccsmac.com/>  
Creative consulting Services provide Internet and Macintosh consulting services. Internet services include web site design and hosting, forms, database and e-commerce sites. Macintosh support includes troubleshooting hardware and software problems.

### MacMobile

Columbus  
614-257-1438  
<http://www.macmobile.com>  
MacMobile provides Macintosh service and support to the Greater Columbus Metropolitan Area. MacMobile is run by Tom Davis who has over eighteen years computer experience. On-site and phone consultations are provided.

### Tubbs Consulting

Dublin  
614-761-0266  
<http://www.tubbs.net/>  
Tubbs Consulting provides services for computer users on many platforms. We specialize in 3D design & illustration, animation and video. We also provide technical support and consulting services in the areas of Software and Hardware, Networking and software development.

## Oklahoma

### MacServ, Inc.

Oklahoma City  
405-721-4181  
<http://www.macserv.com/>  
We are Oklahoma's ONLY Macintosh-only Reseller, Service Provider, and Solutions Provider. We provide solutions for general consumers, and the printing, publishing, small business, and graphic design markets.

### Mega Watts Computers

Tulsa  
918-664-Macs (6227)  
<http://www.megawatts.com/>  
We are an Apple Authorized Value Added Reseller. We are fully authorized to sell new Apple computers, including PowerBooks, G3's, iBooks & iMacs. In addition we also sell Factory Refurbished Apple products.

### :) solutions

Bartlesville  
901-331-0368  
We're a small company that focuses on the

home/small business market. We offer consulting, technical support, hand-holding, and other related services to the northeast Oklahoma market.

## Oregon

### Axelrod Consulting

Tualatin  
503-691-2880  
<http://www.axelrodconsulting.com>  
We provide professional software development services for the Macintosh, Windows and Windows CE platforms, and we've been developing Macintosh software since 1984 (former Apple employee).

### Creativepro.com

Portland  
800-796-9798  
<http://www.creativepro.com/>  
Creativepro.com is a one-stop, quality resource for creative professionals. Creativepro.com efficiently organizes industry headline news, listing up-to-the-minute information culled from content providers including The Associated Press, Ziff-Davis, Mac Publishing LLC, Publish Magazine, PR Newswire and other sources.

### Expert Macintosh Consulting

Eugene  
541-344-8850  
<http://www.macexpert.com>  
Personal and affordable Macintosh assistance for corporate, small business, home and education users. Specialists in Mac tech. support. Maintenance contracts available. Internet installation and web site design.

### Fitch & Fitch

Portland  
503-760-9278  
<http://www.imagina.com/webpages/ftfitch/>  
Now in our 10th year, Fitch & Fitch provides FileMaker Pro database development, website design, and Macintosh support services. We can also turn your QuarkXPress and PageMaker files into Acrobat files: put your catalogs and support materials onto CD-ROM!

### Sherman Consulting, Inc.

Monmouth  
503-623-4648  
<http://www.sherm.com>  
Our primary focus is consulting and training for special education inclusion. We also provide general technical support for Macintosh systems, adaptations for special needs, and Frontier-based web site services.

## Pennsylvania

### 5-Minute Mac Consulting

Wampum  
724-535-0990  
<http://www.5minutemac.com/>  
The tri-state area's leading Macintosh computer support resource for purchase planning and advice, workstation setup and configuration, network design and installation, general troubleshooting, technical support, hardware and software upgrades, and user productivity training.

### CompuNerdz

Clarks Summit  
570-586-4503  
<http://compunerdz.com>  
Full service Macintosh repair, upgrade, training, web design and consultation. Open 24/7 in Northeastern Pennsylvania.

### Desktop Design Associates, Inc.

Allentown  
610-395-9230  
<http://www.ddalink.com>  
Founded in 1987, Desktop Design Associates, Inc. is an Apple Solution Expert (ASE) specializing in the graphic arts and electronic publishing industries. DDA provides consulting, sales, service, support and training.

### MAC Technology Groupe, Inc

Bensalem  
215-245-8144  
<http://www.mtgroupe.com>  
Mac Technology Groupe is a computer consulting, service and sales organization. We specialize in the implementation of Macintosh and PC workstations/fileservers in the graphic arts, production, pre-press and education industries.

### Nathan White

Horsham  
215-672-0475  
<http://www.voicenet.com/~nwwhite/pro>  
Software and Database design, Internet Services, Consulting. Direct Mail industry specialist with experience in DOS/VSE, AFP, and EZ-Letter. Cobol and Assembly work. Migrating development and production to PC environment.

## Rhode Island

### For Color, Ink

Portsmouth  
401-683-7829  
For Color, Ink specializes in on-site training, writing custom ICC profiles, and organizing data workflow for the electronic publishing industry.

### Gravity Storm Inc.

Tiverton  
401-624-2815  
<http://www.gravitystorm.com>  
Gravity Storm Inc. is a technology consulting firm located in Tiverton, Rhode Island. We specialize in assisting small to medium sized businesses throughout southeastern New England to get the most out of today's technologies.

### The ICon Group

Johnston  
401-831-3946  
<http://www.theicongroup.com/iconinfo/>  
The ICon Group provides innovative consulting services to education and business customers. Our services include technical consulting, planning, systems design, custom development, and staff development.

## South Carolina

### Always Thinking, Inc.

Beaufort  
800-556-9559  
<http://www.alwaysthinking.com>  
Always Thinking provides professional Macintosh



software development serves to software publishers and corporate clients. Our programmers have a wide variety of skills ranging from solid GUI design and implementation down to low-level system extensions.

#### Computer Consultants Group

Charleston  
843-722-7607  
<http://www.ccgnet.com/>

Computer Consultants Group (CCG) specializes in servicing small to medium sized companies, as well as individuals. CCG provides comprehensive consulting services to clients. CCG plans and executes installation and implementation of hardware and software systems.

#### David J. Crockett

Seneca  
864-882-4943  
<http://www.mynvo.com/crockett>

Familiarity with Mac client/server situations. Developer of AppleScript-based custom automated solutions to WWW, e-mail and file exchange situations (special attention to media/public relations settings). Offer both telephone-based and limited onsite consulting at reasonable rates.

#### The Mac Doctor, Inc.

Greenville  
864-421-0374  
<http://members.home.net/macbones/>

Local Greenville, SC area Macintosh support. Consulting, repair, networking, new system setup/orientation, private tutoring/classroom training, and quarterly maintenance contracts with no 'up-front' charges.

#### South Dakota

##### Computer Resources

Sioux Falls  
605-333-9600  
<http://crsd.com>

Computer Resources, an Apple Authorized Dealer and Service Provider, has been serving business and publishing customers in the Tri-State area for over ten years. We pride ourselves in prompt response time and an extended knowledge of the Macintosh platform.

##### Computer's Etc.

Rapid City  
605-342-9204

Computer's Etc. is a business specializing in Macintosh consulting. Areas of expertise are Macintosh video editing solutions, business database and spreadsheet design solutions. Computer's Etc. also specializes in cross platform solutions and cross platform data and file transfer from PC to Mac and Mac to PC platforms.

#### Tennessee

##### Creative Software Solutions

Fayetteville  
931-438-0727  
<http://www.creativesolutions.com>

Creative Software Solutions is a database consulting company specializing in the development of off-the-shelf and custom FileMaker Pro database solutions (Macintosh and Windows) for all types of businesses and organizations.

##### Duthie Associates, Inc.

Nashville  
615-386-3061  
<http://www.duthiemmm.com>  
Duthie Associates, Inc.'s services include consulting and development of interactive multimedia business presentations, and training programs. Programs are delivered on Macintosh and Windows computers.

##### Image One Solutions

Cleveland  
423-476-1558  
<http://www.imageonesolutions.com>  
Our expertise is FileMaker Pro. Individually customized solutions for your business, including internet features with database-driven web sites and complete FileMaker Pro hosting.

##### The Macsmith

Antioch  
615-360-8641  
Highest quality Macintosh Service!  
Very successful since starting in June of 1995. (Quality has a way of getting its own word out).

#### Texas

##### Complete Data Solutions, Inc.

Austin  
512-329-6161  
<http://www.compdata.com>  
Complete Data Solutions (CDS), an innovator in the technology services industry, has pioneered a new process to quickly analyze and identify a company's core strategic issues, then develop an information technology (IT) plan that addresses the company's current challenges and makes the most of their future opportunities.

##### Datavista

Austin  
512-832-4123  
<http://www.datavista.com>  
Information Services for Presentation, Media & Content -and- technology. Solutions for Macintosh e-Business.

##### Entech Information Services

Houston  
713-952-2800  
<http://www.entechn.com>  
Entech is the premier provider of business internet service in the Houston area (as ranked by Houston Business Journal). We provide consulting services, internet connectivity (business only), website hosting, website development and website programming.

##### Mr. MacHead

Dallas  
214-351-2700  
<http://www.mrmachhead.com>  
Mr. Machead offers Macintosh technical support for both hardware and software. Offering Macintosh integration solutions and cross-platform connectivity between Macintosh and DOS, Windows and NT networks.

##### The Mac Guru

Bastrop/Austin  
512-278-8098  
<http://www.sbi-enterprises.com>  
The Mac Guru offers expert, on-site support & services to Austin and Central Texas Mac users, including setup,

training, troubleshooting, hardware and software installations, upgrades and networking.

#### Utah

##### Aaron W. Beck Co.

Salt Lake City  
801-263-6506  
<http://www.awbeck.com/>  
Database and networking system specialists. Creating network database solutions using FileMaker pro to refine company throughput and information sharing and knowledge through personalized training.

##### ExperCom

Hyde Park  
888-563-6112  
<http://www.expercom.com>  
ExperCom sells and services new, used and reconditioned Macintosh computers and accessories.

##### Red Rock Software, Inc.

Salt Lake City  
801-322-4322  
<http://www.redrocksw.com>  
Analysis & Design - experience with complete software lifecycle on commercial, shipping products, OOA/OOD methodologies are used as a matter of course for both in-house and for-hire projects.

#### Vermont

##### Blue Wave Software

East Thetford  
802-785-2547  
<http://www.bluewav.com>  
Blue Wave Software designs and develops software for new media applications, including digital audio, video, and the web.

##### Humble Digital inc.

Shelburne  
802-846-2157  
<http://www.humbledigital.com>  
Humble Digital is northern Vermont's #1 Apple Solutions Expert. We offer print and multimedia creation, web design & hosting, QuickTime Streaming, and training classes. Visit our site or call us for information.

##### Sylvan Software

Norwich  
802-649-2231  
Sylvan Software provides consulting services to businesses, institutions and individuals in Vermont, New Hampshire and northern Massachusetts. We specialize in custom databases built using ACI's 4th Dimension and Sybase's PowerBuilder.

#### Virginia

##### Capitol Mac

Richmond  
804-358-3100  
<http://www.capitolmac.com>  
Capitol Mac is Richmond's only Apple Specialist, in addition to being an Authorized Value Added Reseller and Apple Service Provider Plus. Capitol Mac is the source for Apple Computers and peripherals for graphic designers, videographers, business users and hardcore gamers in and around the Richmond, Virginia area.

**Seneca Support Technologies**

Vienna  
703-903-0200  
<http://www.seneca.com>  
Seneca Support Technologies provides high quality rapid response help desk solutions to Fortune 2,000 companies, VARS, Resellers, and Consultants. Seneca offers truly scaleable technical support solutions featuring toll free 800# access, rapid response priority technical phone support.

**Source 3, Inc.**

Springfield  
703-569-5000  
<http://www.source3.com>  
A women owned full service cross-media communications company. Expert in all major software packages.

**TASC**

Arlington  
703-558-7400  
<http://www.tasc.com/>  
TASC develops and distributes cutting-edge products and services designed to help our clients meet their own ambitious technical goals more efficiently and cost-effectively.

**TECHHEAD**

Richmond  
804-782-6971  
<http://www.techhead.com>  
TECHHEAD provides Computer Training, Technical Staffing, and Web Development services. All of our training classes are taught on the Mac platform with a focus on Web and Multimedia Tools such as Dreamweaver, Flash, Fireworks and Director, as well as, classes in graphics apps such as Photoshop, Quark, Illustrator and FreeHand.

**Washington****ActiveMac**

Seattle  
206-297-8834  
<http://www.activemac.com/>  
ActiveMac is a computer consulting firm specializing in web design and hosting, scripting and office automation (including AppleScript, FileMaker, etc.), and on-site troubleshooting and support.

**Hewitt Consulting**

Chehalis  
360-740-1090  
<http://www.hewittco.com>  
We specialize in local and state government services, election systems for state and county governments, and electronic commerce. Our primary focus is developing quality business applications using high speed database technology and the MacOS.

**Piper Computer Services**

Port Orchard  
<http://macpcs.com>  
Apple Macintosh software and hardware support, troubleshooting, configuration, and web site design. Phone support available!

**SkyTouch Communications**

Bellevue  
206-643-4653  
<http://www.skytouch.com/>  
SkyTouch Communications (formerly Raven Systems)

was founded in 1992 with the explicit purpose of developing innovative, high-quality, personal computer software solutions.

**Wisconsin****Connecting Point Computer Center**

Green Bay  
920-435-2335  
<http://www.cccp.com>  
Offerings include sales, network connectivity, full rental dept., training and the largest service dept. in Northeast, Wisconsin. Desktop Publishing/Multimedia specialist in-house, 3 authorized service technicians, 3 Mac trainers, and a Chancery Authorized Reseller featuring Mac School software.

**Michael D. Conners****A Macintosh and Technology Professional**

Sun Prairie  
608-575-7297  
Michael Conners is a Macintosh and technology professional specializing in consulting, training and database design. Located in Sun Prairie, WI, I can be reached at 608-575-7297.

**MacClinic**

Plover  
715-345-2806  
[www.macclinic.net](http://www.macclinic.net)  
MacClinic offers: 10 years Macintosh experience. Apple Product Professional on staff. System analysis, using information methodologies. Consulting services, upgrades and repair. Superior attention to detail.

**MacPower Consulting**

Eau Claire  
715-552-1753  
Private Macintosh consultant specializing in: home/small business design & setup, internet access & connectivity, and hardware & software troubleshooting.

**NRG Software, LLC.**

Milwaukee  
414-545-0353  
<http://www.nrgsoft.com>  
Custom Mac Programming, scripting, java development, database work, etc.

**Third Millennium Design, Inc (3MD)**

Milwaukee  
414-221-1941  
<http://www.3md.com>  
Started in 1992, 3MD services the design/production industry. 3MD an Apple Authorized Service Center and Reseller, has four areas of specialization, Sales/service, design/production, training, and Internet services. We are experts in cross-platform integration & production.

**Canada****Blue Chip Consulting Inc.**

Toronto  
416-456-1555  
Blue Chip Consulting Inc. was established in 1990 to provide database and office automation solutions to small to large size companies. We provide customized software as well as consulting services to these groups along with "Executive Training" for those that wish one-on-one training in only the areas that they are concerned.

**Green Solutions for Macintosh**

Toronto  
416-928-2125  
<http://www.greenapple.on.ca>  
A Toronto based consulting firm specializing in Macintosh training, diagnostics, and custom business solutions including internet access and web page design.

**Can't find a consultant?**

If you can't find a consultant in your area, be sure to search our consultant's database at [www.macdirectory.com/pages/Services.html](http://www.macdirectory.com/pages/Services.html) and access over 5,000 Macintosh consultants worldwide.



# MacDirectory Business Directory



## Welcome to MacDirectory Super Buyer's Guide

We have created this section to help you find the products and services you need for your Macintosh and business. A complete index section is available on page 191. If you can't find what you are looking for, don't panic! Simply go to [www.macdirectory.com](http://www.macdirectory.com) and access the largest Macintosh product and service database. Over 1 million solutions are available including job openings, daily news, free technical support, reviews, hot deals and new product information.

### ACCELERATORS

ADAPTEC, INC., <a href="http://WWW.ADAPTEC.COM">WWW.ADAPTEC.COM</a> .....	408/945-8600
ATI TECHNOLOGIES INC., <a href="http://WWW.ATITECH.COM">WWW.ATITECH.COM</a> .....	905/882-2600
CORECO, <a href="http://WWW.CORECO.COM">WWW.CORECO.COM</a> .....	514/333-1301
DAYSTAR DIGITAL, INC., <a href="http://WWW.DAYSTAR.COM">WWW.DAYSTAR.COM</a> .....	770/967-2077
FORMAC ELEKTRONIK CMBH, <a href="http://WWW.FORMAC.COM">WWW.FORMAC.COM</a> .....	+49 3379-340-0
GRIFFIN TECHNOLOGY, INC., <a href="http://WWW.GRIFFINTECHNOLOGY.COM">WWW.GRIFFINTECHNOLOGY.COM</a> .....	615/255-0990
INTEGRATED COMPUTER ENGINES, INC., <a href="http://WWW.ICED.COM">WWW.ICED.COM</a> .....	781/768-2300
MICROMAC TECHNOLOGY, INC., <a href="http://WWW.MICROMAC.COM">WWW.MICROMAC.COM</a> .....	949/362-1000
NEWER TECHNOLOGY, INC., <a href="http://WWW.NEWERTECH.COM">WWW.NEWERTECH.COM</a> .....	316/943-0222
POWERLOGIX, <a href="http://WWW.POWERLOGIX.COM">WWW.POWERLOGIX.COM</a> .....	512/795-2978
SONNET TECHNOLOGIES, <a href="http://WWW.SONNETTECH.COM">WWW.SONNETTECH.COM</a> .....	800-786-6260

SONNET CARDS OFFER SUPERIOR VALUE. THEY ARE EASY TO INSTALL, RELIABLE, AND PRICED WELL BELOW A NEW COMPUTER. ALL SONNET UPGRADES ARE CONSERVATIVELY BUILT TO RUN WELL WITHIN ENGINEERING DESIGN SPECIFICATIONS FOR SPEED, TEMPERATURE, AND POWER CONSUMPTION. THIS IS ONE OF THE REASONS WHY SONNET IS ABLE TO OFFER AN INDUSTRY-LEADING, THREE-YEAR MANUFACTURER'S WARRANTY.

SKY4 STUDIOS, <a href="http://WWW.SKY4STUDIOS.BE/">WWW.SKY4STUDIOS.BE/</a> .....	+32 3 471 19 98
TECHWORKS, <a href="http://WWW.TECHWORKS.COM">WWW.TECHWORKS.COM</a> .....	800/688-7466
TOTAL IMPACT, <a href="http://WWW.TOTALIMPACT.COM">WWW.TOTALIMPACT.COM</a> .....	805/987-8704
TRANS INTERNATIONAL, <a href="http://WWW.TRANSINTL.COM">WWW.TRANSINTL.COM</a> .....	714-634-1583
VILLAGE TRONIC, <a href="http://WWW.VILLAGETRONIC.COM">WWW.VILLAGETRONIC.COM</a> .....	+49 5066 7013 0
XLR-8 BY INTEREX, <a href="http://WWW.INTEREXINC.COM">WWW.INTEREXINC.COM</a> .....	316/636-5544
YARC SYSTEMS CORPORATION, <a href="http://WWW.YARC.COM">WWW.YARC.COM</a> .....	805/499-9444

### ACCESSORIES

BELKIN, <a href="http://WWW.BELKIN.COM">WWW.BELKIN.COM</a> .....	800/223-5546
BOOKWARES, <a href="http://WWW.BOOKWARES.COM">WWW.BOOKWARES.COM</a> .....	415/339 8900
CO-DU-CO COMPUTER DUST COVERS, <a href="http://WWW.CO-DU-CO.COM">WWW.CO-DU-CO.COM</a> .....	414/476-1584
CONTOUR DESIGN, INC., <a href="http://WWW.CONTOURDESIGN.COM">WWW.CONTOURDESIGN.COM</a> .....	800/462-6678
DR. BOTT, <a href="http://WWW.DRBOTT.COM">WWW.DRBOTT.COM</a> .....	503-452-8101
GRIFFIN TECHNOLOGY, <a href="http://WWW.GRIFFINTECHNOLOGY.COM">WWW.GRIFFINTECHNOLOGY.COM</a> .....	615/255-0990
JOSEPH C LEE COMPANY, <a href="http://WWW.JMACRESETBUTTON.COM">WWW.JMACRESETBUTTON.COM</a> .....	559/994-0155
LAIDBACK WE R INC., <a href="http://WWW.LAPTOP-LAIDBACK.COM">WWW.LAPTOP-LAIDBACK.COM</a> .....	902/226-3092
MADSONLINE, <a href="http://WWW.MADSONLINE.COM">WWW.MADSONLINE.COM</a> .....	415/339-8900
TARGUS, INC., <a href="http://WWW.TARGUS.COM">WWW.TARGUS.COM</a> .....	714/523-5429
TENBA QUALITY CASES LTD., <a href="http://WWW.TENBA.COM">WWW.TENBA.COM</a> .....	212/966-1013
TOM BIHN PACKS, <a href="http://WWW.TOMBIHN.COM">WWW.TOMBIHN.COM</a> .....	831/423-5659

### ACCESSORIES - ADAPTERS

GRIFFIN TECHNOLOGY, <a href="http://WWW.GRIFFINTECHNOLOGY.COM">WWW.GRIFFINTECHNOLOGY.COM</a> .....	615/255-0990
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### ACCESSORIES - CABLES

BELKIN, <a href="http://WWW.BELKIN.COM">WWW.BELKIN.COM</a> .....	800/223-5546
BLACK BOX CORPORATION, <a href="http://WWW.BLACKBOX.COM">WWW.BLACKBOX.COM</a> .....	724/746-5500

D&D SECURITY RESOURCES, INC., <a href="http://WWW.DDSECURITY.COM">WWW.DDSECURITY.COM</a> .....	800/453-4195
MICROTECH INTERNATIONAL, INC., <a href="http://WWW.MICROTECHINT.COM">WWW.MICROTECHINT.COM</a> .....	203/483-9402

### ACCESSORIES - CACHE

MICROMAC TECHNOLOGY, INC., <a href="http://WWW.MICROMAC.COM">WWW.MICROMAC.COM</a> .....	949/362-1000
POWERLOGIX, <a href="http://WWW.POWERLOGIX.COM">WWW.POWERLOGIX.COM</a> .....	512/795-2978
VIKING COMPONENTS INC., <a href="http://WWW.VIKINGCOMPONENTS.COM">WWW.VIKINGCOMPONENTS.COM</a> .....	714/643-7255
XLR-8 BY INTEREX, <a href="http://WWW.INTEREXINC.COM">WWW.INTEREXINC.COM</a> .....	316/636-5544

### ACCESSORIES - DISPLAY DEVICES

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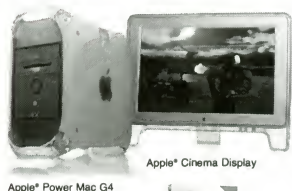
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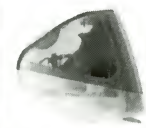
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CHANTILLY	MACHEAVEN	(703) 968-8805
MANASSAS	METRO TECHNOLOGIES, INC.	(703) 361-9553
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SEE ALSO MACINTOSH CONSULTANT'S GUIDE (PAGE 113)  
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LOS ANGELES	SIMPLY DIGITAL	(310) 839-2180
LOS ANGELES	SOLUTIONS CONSULTING	(310) 838-5224
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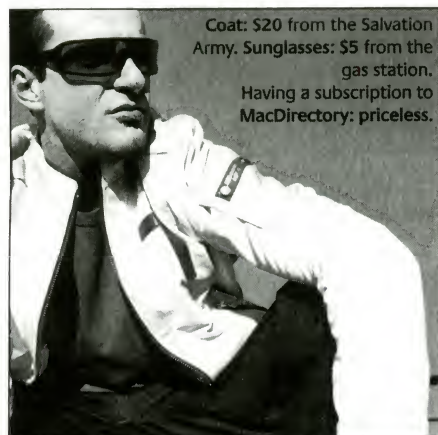
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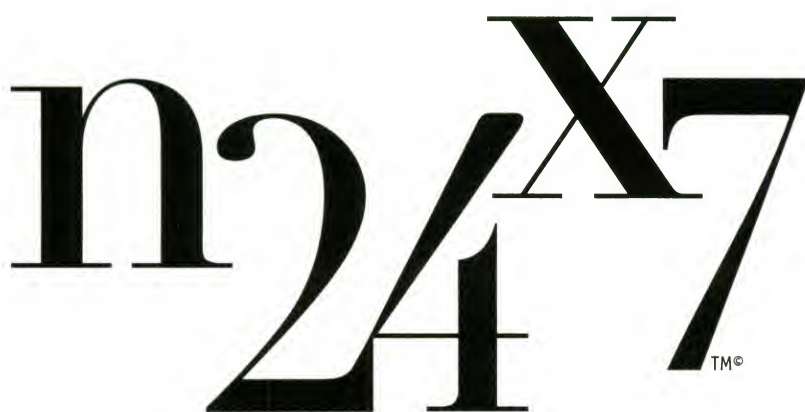
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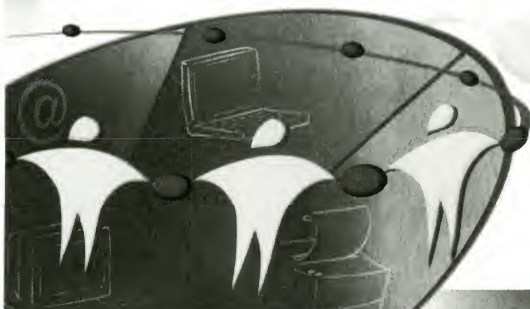
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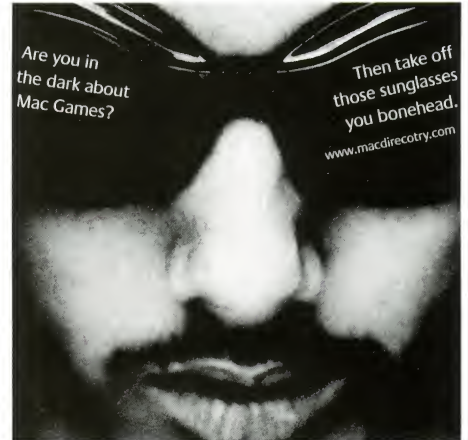
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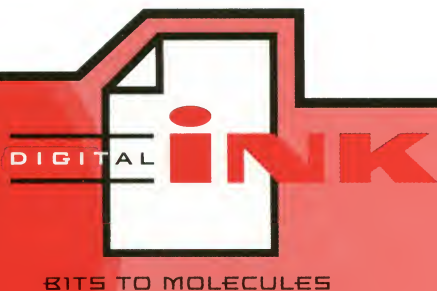
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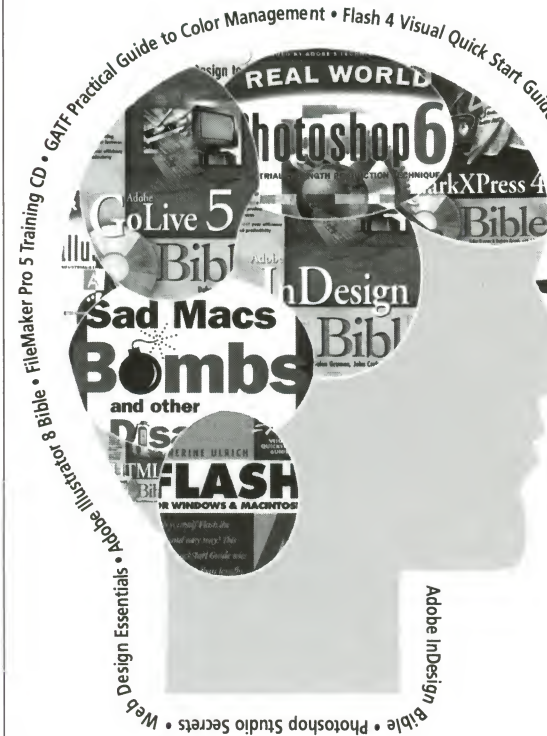
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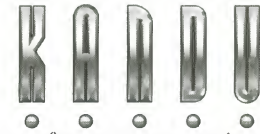
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## review 10 > FlightCheck 3.9

BY TREY YANCY

THE COLLECTING OF FILES, FONTS AND IMAGES FOR OUTPUT USED TO BE A HASSLE. IT WAS ALSO VERY EASY TO OVERLOOK ERRORS WITH THESE FILES, RESULTING IN SOME VERY EXPENSIVE HEADACHES. THE APPEARANCE OF DEDICATED ERROR CHECKING AND COLLECTION UTILITIES WAS A MAJOR BOON, BUT EVEN THEN, WHAT YOU OFTEN ENDED UP WITH WAS LESS THAN OPTIMAL. THEN CAME FLIGHTCHECK.

### Identify Problems and Solutions

FlightCheck looks for more than 150 potential problems in files from *QuarkXpress*, *Pagemaker*, *Illustrator*, *FreeHand*, *Photoshop* and *MultiAd Creator*, as well as *PDF* files. It also suggests solutions, shows you a page-by-page representation of your document, and takes you right to the problem element within the document itself. It is highly

customizable, allowing you to turn on specific checks while ignoring others.

You can password protect these

"Ground Control"

settings and can create as many custom configurations as you wish.

FlightCheck provides a great deal of information, and a busy interface is the inevitable result. The main window has six collapsible and resizable panes for providing information on files, pages, print, colors, fonts and images. The subcategories displayed in the latter three panes are specified via the floating Views panel. Double click on a flagged item and a window appears offering detailed information, along with a variety of viewing, editing and printing options. Problems and suggested remedies are summarized in a separate Results window. There are also other panels and windows covering trapping, font management, and just about everything you could imagine. In short, all you need to know about your document is instantly available and easily manipulable.

### Collecting

FlightCheck makes quick work of collecting a job for output. Along with providing options for file management, and the inclusion (or exclusion) of specific images, printer fonts, prefs files, etc., there are also options for file compression, segmenting, joining and binhexing. The application also includes tools for creating custom forms, job tickets and the like. You can also

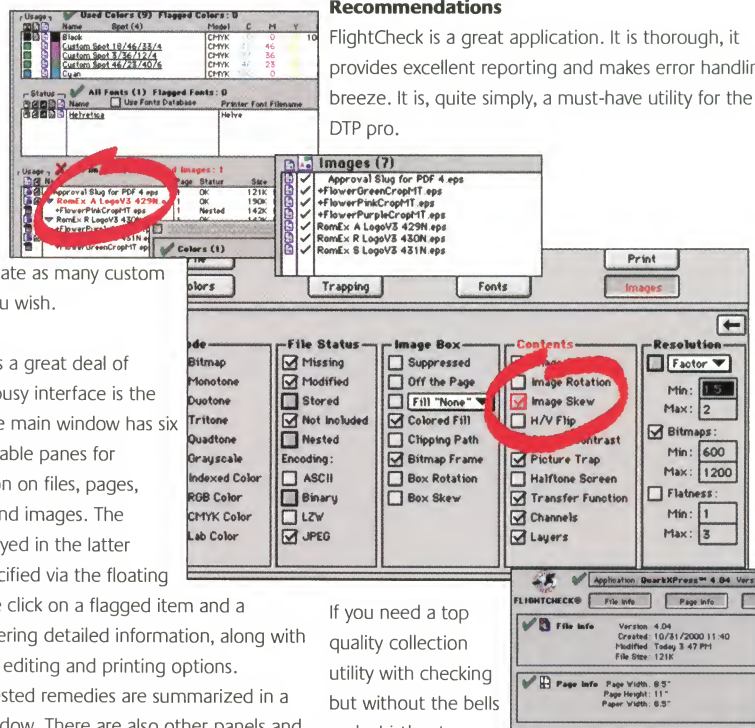
import existing EPS images for inclusion in the printed form or as non-printing placeholders when using pre-printed stock.

### Automation

FlightCheck's AppleScript support, when combined with OS 9's scriptable folders, enables the user to easily create a drop folder for automatically checking documents, collecting jobs, gathering statistics and printing reports. The manual includes some sample scripts and examples to get you started.

### Recommendations

FlightCheck is a great application. It is thorough, it provides excellent reporting and makes error handling a breeze. It is, quite simply, a must-have utility for the DTP pro.



If you need a top quality collection utility with checking but without the bells and whistles, I recommend FlightCheck Collect. If your needs are for job collection only, a free version of FlightCheck is also available.

**Pros:** Extensive checking of documents, excellent reporting, highly customizable, scriptable.

**Cons:** Somewhat cluttered interface.

Price: FlightCheck \$379

Upgrade: \$99

FlightCheck Collect: \$149

From: Markzware

[www.markzware.com](http://www.markzware.com)

MacDirectory

★★★★

## review 11 &gt; ConceptDraw 1.5.2

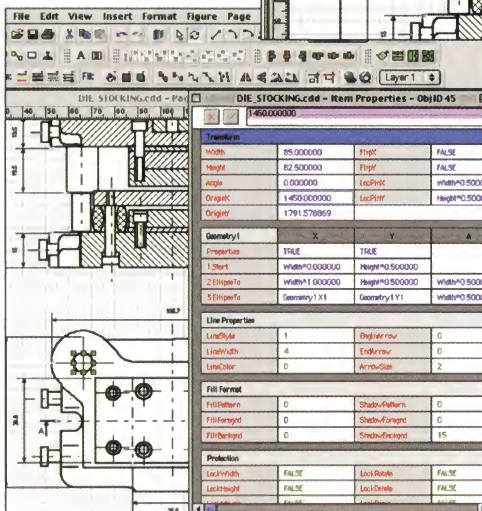
BY TREY YANCY



SMALL FISH DRAWING APP ENTERS BIG POND. CONCEPT DRAW, A CROSS-PLATFORM DRAWING PROGRAM FROM COMPUTER SYSTEMS ODESSA, IS A STUDY IN CONTRASTS. IT IS AT ONCE AMBITIOUS AND UNIMPRESSIVE, FORWARD-THINKING AND BEHIND THE TIMES. RISING FROM THE SHORES OF SOUTHERN UKRAINE, IT INVADERS THE WEST, PREPARED TO GIVE MACDRAW THE DRUBBING OF ITS LIFE.

### Features

It is positioned as a technical drawing tool, and is capable of great precision (*purportedly to one millionth of a millimeter*). You can edit an object using a table window, which contains every minute characteristic of the object. It supports layers, multi-page documents and unlimited undos. It allows you to attach a URL to any object.



It also features a "glue" function that allows you to select an object and an endpoint of a line, group them and reposition the group independently of the other endpoint. This is great for things like callouts and flow charting.

It also comes with a variety of editable libraries containing drawing elements and clip art. Multiple libraries can be accessed simultaneously through a single

palette. For each library added, a related button appears at the top of the palette. This makes quick work of



projects requiring easy access to large numbers of elements in different categories, such as cartography or circuit design. This, along with the table window, is one of the few instances of floating panels in Concept Draw. The tool bar is heavily populated with icons for specifying the attributes of the elements in your illustration, but a smooth workflow is inhibited by a heavy reliance on non-floating control panels, which must be closed before you can resume your work.

### Drawbacks

Standing in stark contrast to its technical orientation is its lack of support for EPS. It can import and export BMP, metafile, JPEG, GIF and PICT files, but these are of limited use with a precision drawing tool. Its color selection tools take me back to the days of the Atari ST: button menus provide access to 16 colors, and its color palette offers a table of 256 colors or 256 grays. Double-clicking on a color calls up the standard Mac color selector (*which provides access to CMYK colors*), but you can not assign the color a name, or display it with any other view. Furthermore, there is no support for Pantones, Toyos, Focaltones or metallics.

### Summary

Concept Draw has a lot going for it, but it needs to further expand its support for professional color models and EPS import and export function.

**Pros:** Multipage documents, precise tools, HTML support

**Cons:** No support for EPS or professional color standards

### Requirements

Operating System: MacOS 8.0

Processor: Power PC 603 processor

Ram: 32 MB RAM

Video Card: Capable of 640x480

Price: \$149 download

Price: \$199 (international courier)

From: Computer Systems Odessa

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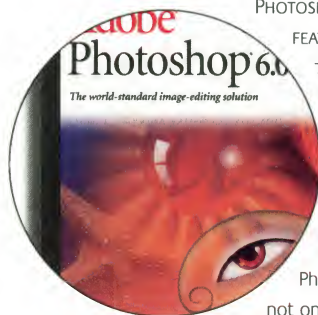
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## review 12 &gt; Photoshop 6.0

BY DAN MOUGHAMIAN

FALL 2000 MARKED THE RELEASE OF ONE OF THE MOST SIGNIFICANT PHOTOSHOP UPGRADES IN YEARS. ADOBE PHOTOSHOP 6 HAS NOT ONLY MANY NEW FEATURES, BUT SIGNIFICANT IMPROVEMENT TO EXISTING CAPABILITIES AS WELL.

**Under the Hood**

Though Photoshop 6 is in many ways a brand new product, the two marquee additions are ones that have been long awaited in the Photoshop community. Photoshop 6 not only supports the creation and alteration of vector shapes, it has tremendously improved vector-based text capabilities. Users no longer must type their text into a separate dialog box and then apply changes to see how it affects their image. All text is added directly into the image window and myriad affects and adjustments can be made and viewed in real time.

Adobe has used a variant of **InDesign's** powerful text engine, so now virtually every type or paragraph setting available to InDesign users is available in Photoshop. Additionally, there is an excellent new *Text Warp* feature that allows users to add special effects to their text selection with minimal effort. All in all, Photoshop's new text capabilities are exactly what users have been clamoring for. Thank you, Adobe.

But this is just the beginning of Photoshop's new capabilities; vector shapes can now easily be created and customized within Photoshop documents.

Using vector and path tools in tandem with *enhanced fill and gradient options*, as well as *enhanced layer support*, users can now experiment with their images and create effects that previously would have been impossible without **Illustrator**. No longer.

Version 6 also offers greatly enhanced support for layers, including a *new layer effects dialog* that allows *transparency, beveling* and other *customizations* to be applied to any text or vector shape layer.

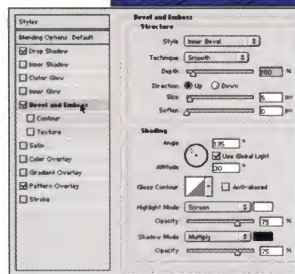
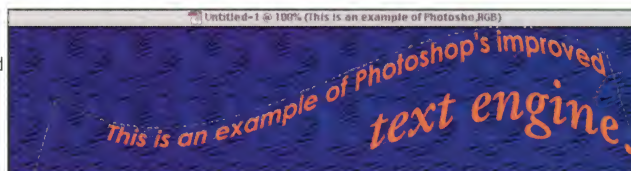
Last but not least, Photoshop now supports images with literally hundreds of layers. Those layers can be better managed through an *updated layers palette*, which allows layers to be locked and grouped in any fashion the user requires (*including layer effects*).

Photoshop 6 also adds robust support presets via the new *Presets Manager*. Whether using *custom brushes, gradients, shapes, contours, patterns or layer styles*, users can now easily create and save their own preset libraries for use across multiple images.

**On the Face of It**

Refinements have been made to the user interface as well, including a *new contextual toolbar* that stores each tool's options and effects and displays them when the tool is selected. This toolbar also offers a space to store several palettes horizontally, rather than docking them all vertically, though some users may find this counter-intuitive in certain situations. The new interface metaphor definitely allows Photoshop users to customize their workspace while potentially freeing up valuable screen space at the same time.

It is now quite possible to accomplish many standard image editing and color correction tasks without having a single palette on screen. In many cases, this means users can view a much larger proportion of their image without having to scroll.



Adobe fans can only hope that other applications such as **Illustrator** and **InDesign** will follow suit in future versions. The standard Adobe interface is a good one, but with robust support for customization, it can become a model for the rest of the industry to follow.

Finally, each shared button on the *tools palette* now displays the name of each tool and its shortcut in the *pop-out menu*, not just the tool's icon. This should make it easier for new users to find their way around Photoshop's toolset, which can be daunting at times.

**Web-head's Take Notice**

Photoshop 6 is set to become the de-facto image editor for Web designers. Not only does it come with



**ImageReady 3** - which is markedly improved in its own right, and is well-integrated with Photoshop - but it is now easy to create and output high quality *Web buttons*, *image maps* and *custom image slices*, without ever leaving Photoshop.

#### Some Final Observations

While truly an excellent upgrade - the best in several years in my opinion - Photoshop 6 is not perfect. Given all its capabilities, it is not surprising the hardware requirements have become quite steep for this application. The *64MB of RAM (with VM turned on)* and other requirements listed on the side of the box are bare minimum requirements, and I mean bare minimum. You'll likely want to allocate at least *128MB of RAM* to Photoshop.

However, Photoshop 6 is optimized for Apple's current and future hardware lineups, supporting both *multi-processor machines* and *Altivec*. In that regard, Photoshop is fairly snappy to launch and performs well when opening, applying effects to and saving large documents.

Photoshop 6 also supports a new *HTML Help System*, which I like very much and prefer to the old Help

Application. However, Adobe could stand to make the descriptions and advice therein a little bit deeper. Many of the help files barely scratch the surface of Photoshop's capabilities.

#### The Bottom Line

An excellent upgrade that is well worth the cost of admission - even if you have to buy some extra RAM (*it's cheap right now*) - and one which may preclude you from needing the next upgrade, depending on what you use Photoshop for.

There are now very few digital imaging tasks - if any - that cannot be accomplished with Photoshop 6. Highly recommended.

#### Requirements

Operating System: MacOS 8.5 or higher  
Application: 64mb of available RAM (*with vm turned on*)  
Disk Space: 125mb of available space

Price: \$609

Upgrade: \$199

Upgrade from LE: \$499

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## review 13 &gt; FrameMaker + SGML 6.0

BY WALTER CAMPELL

FRAMEMAKER IS AN APPLICATION THAT YOU EITHER NEED OR YOU DON'T. IF YOU DO, YOU PUT UP WITH ITS STEEP

LEARNING CURVE AND NON-INTUITIVE USER

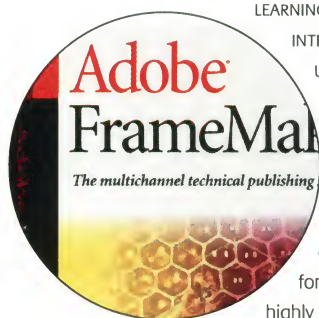
INTERFACE. IF YOU DON'T, YOU'LL BE

UNIMPRESSED WITH ITS ABILITY TO

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The desktop-publishing tool of choice for technical writers and for anyone producing lengthy, highly structured documents,

FrameMaker 6.0 and FrameMaker+SGML 6.0 are now available for the Macintosh (*as well as for Windows and Unix*). SGML stands for *Structured General Markup Language*; a language that, unlike HTML, doesn't apply formatting, but instead sets down rules about how elements are tagged.

If this SGML talk seems bewildering (*or boring*), and unless you have definite plans to create SGML documents, avoid the souped-up edition, especially if you're upgrading to 6.0 from an earlier version. Power Frame users will immediately notice UI differences between the SGML and non-SGML editions. For example, the *Paragraph Catalog* and *Character Catalog* buttons in the non-SGML edition (*and on earlier versions*) are replaced in the SGML edition by buttons for the *Element Catalog* and *Attributes editor*. The UI differences won't stop you in your tracks, but they may have you scratching your head.

### Frame of Reference

FrameMaker is part word processor, part page layout software. As a word processor, it lacks some of the conveniences of other programs (*such as drag-and-drop text editing*); as page layout software, it's not as robust as **PageMaker**. But FrameMaker is ideal for highly structured documents (*think of those formal essay outlines your eighth-grade English teacher had you do*), such as product manuals and user guides.

The heart of FrameMaker's formatting abilities are its paragraph and character tags, similar to (*though easier to use than*) **Microsoft Word's** "styles." Users create tags, such as ones for *headings, notes, figure captions, and numbered list items*. Tags include specifications for *typeface, size, indents, tab stops, leading, and alignment*. A powerful *autonumbering* feature saves you the hassle

of figuring out whether the next table in your document is 14-15 or 15-14.

Paragraph tags are applied to all the text in a paragraph, while character tags format individual characters, or words and sentences. By formatting text with tags, you won't discover at the eleventh hour that half a

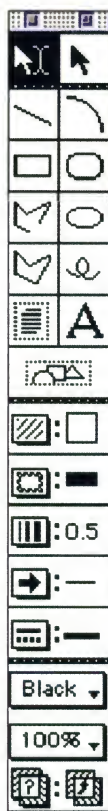
document's notes are in *italics* and the other half in **boldface**.

Text is housed in frames, and you can add multiple frames to a page and specify how text flows through them. For a consistent design, create master pages and apply them to your document. Another nicety: You can use any document as a template by opening it as a new one.

Besides providing uniform layout and consistent text formatting, FrameMaker saves users time and trouble by creating *tables of content and indexes* with just a little prompting. Updating them takes only seconds, which more than makes up for the time you spend formatting the pages and telling FrameMaker what to include on them. Likewise, *cross references* are easily set up and are automatically maintained, and FrameMaker alerts you when cross references become ... crossed up.

Tables, too, are easy to create, though FrameMaker can't dress them up as nicely as Microsoft Word can (*though it can convert text to tables in two mouse clicks*). Setting up reusable table formats gives your tables consistency, while custom ruling and shading let you make nips and tucks wherever necessary.

If FrameMaker has an Achilles heel, it's graphics (*ironic, seeing as how it's from Adobe*). Placing graphics in a document and creating output with good-looking graphics takes practice and patience. And don't be surprised if you encounter graphics-related problems when saving or exporting FrameMaker files to other formats, such as **HTML** or **PDF**. But that's what Frame user forums, mailing lists, and Usenet newsgroups are for.



### Distant Relations

One of Frame users' biggest headaches is Microsoft Word. When converting documents from Word to



FrameMaker, allow plenty of time for debugging (graphics, tables, and cross-references are among the thornier problems). And as for converting from FrameMaker to Word, don't even think about it. The two programs don't get along with each other very well.

Yet FrameMaker seems to be on fine terms with everyone else. FrameMaker+SGML 6.0 for the Mac lets you save files in more than 30 formats, including **PDF, HTML, SGML, XML, Maker Interchange Format (MIF)**, and six shades of **Microsoft Rich Text Format (RTF)**.

FrameMaker seems to be drawing especially close to HTML and, now, SGML. Although HTML output straight from FrameMaker never looks as good as the original files, you do have some control over the HTML elements that paragraph and character tags are mapped to.



**WebWorks Publisher Standard Edition**, which is bundled with FrameMaker, tries to make the conversion smoother, though it's really more of a demo to entice you to buy the Professional Edition.

Depending on the type of documents you're producing, FrameMaker is either a money waster (*costing anywhere from \$680 to \$880*) or a lifesaver. New FrameMaker users will damn it for weeks and praise it for years. It resembles Microsoft Word and PageMaker closely enough that you'll think you have the hang of it long before you actually do. But once you do, you'll wonder how you ever got along without it.

#### System Requirements

Operating System: MacOs 8.5 or higher

Application: 30 MB of available RAM

Disk Space: 35-110 MB of available hard-disk space

Price: \$1,449.00

Upgrade: \$ 449.00

Shared Upgrade for Unix: \$669.00

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## review 14 &gt; Suitcase 9

BY TREY YANCY



VENERATED FONT MANAGEMENT UTILITY FROM EXTENSIS, CAN TRACE ITS ROOTS BACK TO THE DAYS WHEN DIGITAL DINOSAURS ROAMED THE EARTH, AND AROUND A QUARTER OF TODAY'S MAC USERS DID NOT. DEALT A SERIOUS BLOW BY THE INTRODUCTION OF ATM DELUXE, IT ENDURED SEVERAL CHANGES IN OWNERSHIP, AND HAS UNDERGONE MANY CHANGES. NOW, WITH VERSION 9, IT INTENSIFIES ITS EFFORT TO REGAIN ITS TOP-OF-THE-HEAP STANDING.

**Function**

In a nutshell, Suitcase 9 is a cross-platform utility that enables the user to create and manage sets of fonts that can then be instantly activated, either individually or by sets, and in three ways: *semi-permanent*, *automatically by application*, or *temporarily* until the next restart. Being the only font manager to date to support Apple's FontSync technology, it can combine this with a *Quark Xtension* to ensure that the correct font is always used when several versions are available. Another special feature is that it can be used either as a stand-alone resource manager or as a client to a server edition (*included for free*).

The interface features a three-paned window, one of which lists sets of fonts, and another which displays font status in nine ways, including: *opened fonts*, *missing fonts*, *temporary fonts*, *foundry*, etc. Font specimens are automatically displayed in the third pane, in a variety of ways. You can create sets manually or by dropping a folder of fonts into the sets window. Items are activated by selecting them in the list, then clicking on a button either at the top of the window or in a column to the left of the item. Preferences, including *server client services*, are specified via a unified, three-tabbed dialogue box.

**Suitcase 9 Server**

*Suitcase Server* is used for organizing fonts in a central

location and mirroring this configuration on client workstations. In addition to font management, it can also manage and distribute other kinds of files such as *document templates*, *pictures* and *keylines*, which provide a simple form of centralized resource management than can be quite valuable. Based on *TCP/IP*, clients can be located anywhere within reach of the internet.

Although you can add fonts locally, sets created by the client do not travel upstream. Hands-on management of distributed font sets is handled by the sister application, *Suitcase Server Admin*. Its interface is straightforward, comprised of a single window that includes one pane for font sets, and a second pane containing a list of available fonts. Both provide a variety of ways to viewing their content.

**Setup**

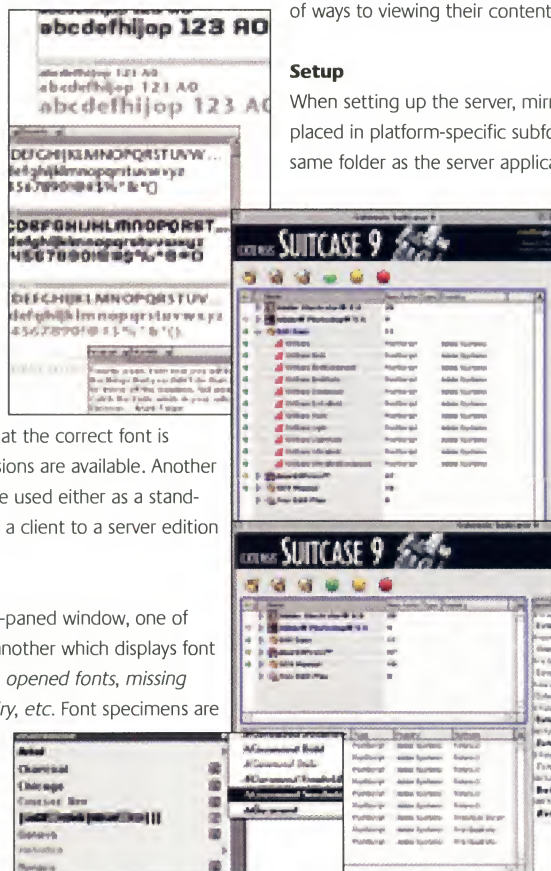
When setting up the server, mirrored font folders are placed in platform-specific subfolders within the same folder as the server application. Other distrib-

uted items reside within the same parent folder. The admin application can be run from anywhere on the network, so the location of the server software is not a major issue.

Each client workstation requires a licensed copy of Suitcase 9, and a seemingly redundant client license, which is sold separately. (*Three client licenses are included with the server software.*)

Considering the server software is provided for free, I have no business complaining.

Setting up a client is easy. Using a preferences control panel, specify the server's IP address and the interval for auto-updating. Manual updating is prompted via a menu command or by keystroke. The initial synchronization of





the Suitcase 9 client can take a few minutes, but subsequent launches are speedy. In contrast, logging on via Server Admin, which triggers an automatic scan for available fonts, can be a time consuming process. Using 1003 fonts in fifteen subfolders, and using a G4, a Rev B iMac, and an 8100/80 in various combinations for server, client, and/or administration across a 10BaseT network, I noted admin launch times ranging from three to fifteen minutes.

#### Neck and Neck

The benefits of Suitcase 9 Server aside, Suitcase is giving ATM Deluxe some serious, blow for blow competition. For example, while Suitcase handles duplicate fonts upon activation, its rival can also perform a comprehensive scan of all sets for manually eliminating duplicate fonts. But while ATM Deluxe grabs the first font in the list when more than one is available, Suitcase scans fonts by eight attributes, then selects the correct font.

#### Quirks

There are however a couple of quirks. Engaging FontSync requires the addition of fonts (*individually or by folder*) via the "Add Fonts" button rather than simple drag and drop. Also, if you edit a font, a rare thing for most users, the edit is not recognized by client workstations until they restart. In addition, users of QuarkXpress 4 need to

install an extension in order to automatically recognize changes in Suitcase's font list. A last note is that the manual is unindexed and frequently redirects the user to the HTML help component, which is available from within the client, but not via the admin application directly.

#### Recommendation

When comparing ATM Deluxe with Suitcase on its own, I would call it a toss-up. Add the benefits of Suitcase 9 server, and the nod goes to Suitcase.

**Pros:** Easy to use, free server version available, manages non-font assets, supports FontSync.

**Cons:** Administration can be slow, no drag-and-drop sets on the server end.

#### Requirements

Client: Mac 8.5 or higher

Server: Mac 8.6 or higher

Server admin: Mac 8.6 or higher

TCP/IP for server access

Price: \$99.95

Upgrade: \$49.95

Competitive Upgrade: \$59.95

Clients: \$35

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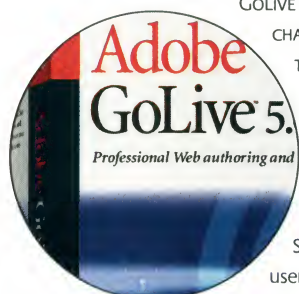
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## review 15 > GoLive 5.0

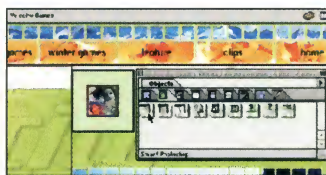
BY TREY YANCY



GoLive 5 SHARES A NUMBER OF CHARACTERISTICS WITH MANY OF THE TOP-QUALITY, PRO-ORIENTED CREATIVE APPLICATIONS.

First, the tools should inspire creativity, and provide users a variety of ways to handle a task. Secondly, the intermediate level user should be able to quickly get up to speed, but there should still be enough headroom for seasoned veterans to explore. An extra bonus with some of these applications, like GoLive, is the ability keep on cranking even if a client or co-worker is running a bit behind providing content.

GoLive is all that, and more. Since it was acquired by Adobe, GoLive has not only maintained its original level of quality, it has also moved forward by making a ton of improvements.



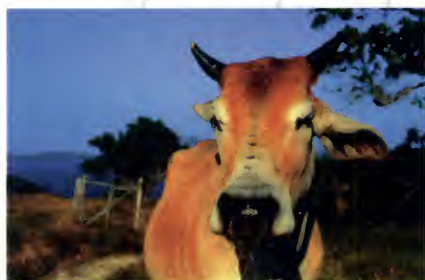
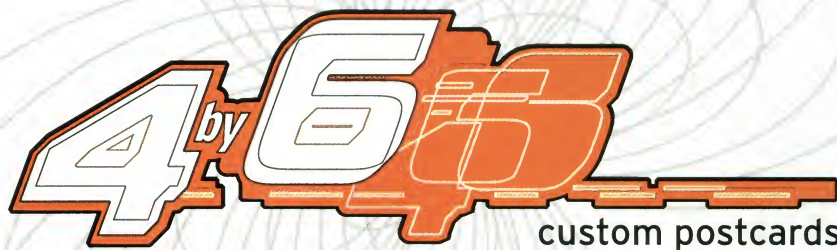
How many improvements to a ton? GoLive's manual has 20 pages for its "What's New" chapter.

### New Toys

A sampling of GoLive 5's enhanced capabilities:

**1.** Import HTML, JavaScript or other markup code without alteration. **2.** View the layout side-by-side with the source code. **3.** Import and export style sheets, drag-and-drop styles on HTML objects and drag styles between style sheets. **4.** Import Photoshop layers as sprites for multistate buttons and as individual, animatable floating boxes. **5.** Thanks to the integration of Photoshop's "Save for Web" engine, you can also import Photoshop files as tracing images, select sections and then convert them into optimized Web images on the fly. **6.** Double-click on

an image to open it in the creator application. **7.** Built-in site diagramming with inspection and analysis tools. Multimedia users will appreciate the *drag and drop* support for audio and video, as well as, the *new timeline window*, which



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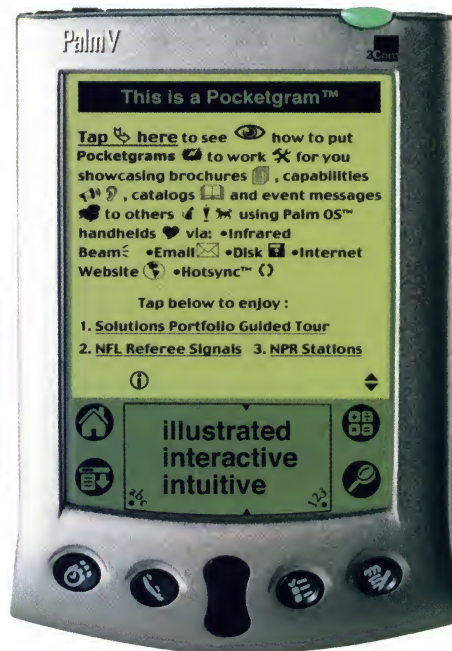
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-MacWorld (April 2000)



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until DiamondSoft released this  
breakthrough product."

-MacWorld (January 2001)



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allows you to add interactive Flash tracks to QuickTime movies among other things.

An additional interface improvement includes: *transform*, *history* and *align palettes* and a *palette to format tables* - with style sheets to boot. Also included is a *software development kit* for altering or adding menu items, palettes and the like. Users in a collaborative environment will appreciate the support for *WebDAV* distributed authoring, which provides secure file check-in and check-out and file locking. GoLive 5 also supports *dynamic linking*, which enables the user to add e-commerce functionality and incorporate dynamic database content without needing extra software. (Yippeel) Support for *WebObjects 4.5* is also included.

#### Digital Intuition

Adobe describes GoLive as intuitive, and the application's point-and-shoot method of linking items is a good example. Another feature that is useful for the novice and pro HTML coder alike is the *outline editor*, which allows you to view and edit HTML elements and properties in a friendly, graphic outline form that is collapsible. Want to swap out an image? Click on a tiny icon next to the image and up pops a directory

navigation box. Want to add form elements? Drop a couple of items from the objects palette right into the outline. Believe me, there is no shortage of object icons to work with. However, some of the intuitiveness is lost on beginners who don't yet understand the ground rules.

#### Recommendations

GoLive 5 is as good for the pro as it is for the intermediate user, but it's not a perfect fit for the beginner. First time page designers have the choice to saddle up for a learning experience, or look elsewhere.

#### Requirements

Operating System: MacOS 8.6 and higher

Application: 48MB of available RAM

Disk Space: 70MB of available HD space

Price: \$299

Competitive Upgrade: \$149

Upgrade: \$99

From: Adobe

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# Omnis Studio: The unfair advantage



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## review 16 &gt; ImagePort 1.0.3

BY JOSEPH KUKELLA

IMAGEPORT IS YET ANOTHER FEATURE DEVELOPED FOR QUARKXPRESS THAT QUARK SHOULD HAVE THOUGHT OF ON ITS OWN A LONG TIME AGO. AND LIKE SO MANY OTHER GREAT THIRD PARTY XPRESS FEATURES, THIS ONE WAS CREATED BY A LOWLY APPRENTICE PRODUCTION, INC.



### Capabilities

Finally, you can import native **Photoshop** files directly into your XPress document. Even better, you can now work with your *layers, channels and paths* from within XPress. If you're tired of dancing between Photoshop and XPress while making adjustments to an image, ImagePort may be for you.

ImagePort is an XTension for QuarkXPress version 4.1, which, as we go to press, is the latest version of the application.

Once installed, an ImagePort palette becomes available. The palette is virtually indistinguishable from the layers palette in Photoshop and includes tabs for layers, channels and paths. Select an image and the corresponding layers appear in the palette. Each layer may then be turned on or off, opacities and blending methods may be adjusted and the stacking order may be rearranged. It's as if you're working directly in Photoshop. The same adjustability extends to the channels and path tabs on the palette.

### Benefits

The benefits of this arrangement can easily be imagined. For one, version control over images can be maintained more easily when there is only one image document containing multiple versions instead of several flattened versions of the same document with different settings. There would, of course, be a corresponding reduction in the hard drive space required to store all the necessary files as well.

In a production environment, the ability to cycle through various image versions, even completely different images on separate layers, can save a significant amount of time.

Additionally, you can try out several different clipping path options or select paths to compare a variety of text wrap options. Channels may be assigned to spot colors, embossing or die cuts or varnish effects. All this flexibility

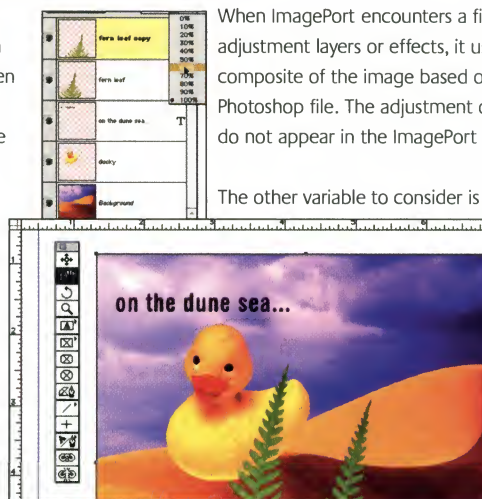
makes ImagePort a strong enhancement to XPress' already strong production capabilities.

### Drawbacks

One weak area which should be addressed in the next release of ImagePort is the lack of support for Photoshop's *adjustment layers or layer effects*. For the majority of users, the inability to work with adjustment layers will be a hindrance, especially since adjustment layers have become a workhorse in production environments.

When ImagePort encounters a file utilizing adjustment layers or effects, it uses a composite of the image based on the Photoshop file. The adjustment or effect layers do not appear in the ImagePort palette.

The other variable to consider is how well does



ImagePort fit into your workflow. As a tool for streamlining the process of testing images in layouts, or producing

various proofs for client approval, ImagePort is a great timesaver. But in the end, you will likely need to settle on a final version of the images being used, and use Photoshop to save a final flattened version to send along to the service bureau or end user.

For one, you cannot be sure that whomever processes the files will have ImagePort. Secondly, when the link between XPress and the image file is broken, as often happens in the service bureau environment, updating the image location updates the image as well. The image as it was last saved in Photoshop, not the image as it was adjusted through the ImagePort palette in XPress, is the version that is used. Potentially, the wrong version of your image could be used.

### Summary

In the end, ImagePort does almost exactly what it sets out to do. It simply allows you to work with Photoshop native files in XPress just as you would in Photoshop. If support for adjustment layers and layer effects are added, I have no doubt that ImagePort will become an indispensable tool in every serious production workflow environment.



"I'VE GOT YOU, DEEP IN THE HEART OF ME > SO DEEP  
IN MY HEART THAT YOU'RE REALLY A PART OF ME >  
I'VE GOT YOU, UNDER MY SKIN"

UNDER MY SKIN BY COLE PORTER

**Jennifer Jason Leigh** has spent the last 20 years getting under the skin of a kaleidoscope of characters. Her metamorphoses include: creepy roommate (*Single White Female*), mother paying the bills as a phone sex operator (*Short Cuts*), teen eager to lose her virginity (*Fast Time at Ridgemont High*), hard drinking junkie singer (*Georgia*), lovesick prostitute (*Miami Blues*), drug-addicted cop (*Rush*), and a sexy virtual reality game designer (*eXistenZ*).

To help slip into each role, Leigh prepares by writing a detailed journal in her character's voice. It's a time-consuming, schizophrenia-inducing exercise, but Leigh says she learns a lot by immersing herself.

Her versatility has earned the respect of critics and fans alike, but Leigh says the opportunity to climb into a different skin for each movie is her motivation.

"Honestly, I would get bored playing the same person over and over again. I like getting lost in the character for awhile. I feel close to the characters I play, but they're definitely not my children or anything. It's not like that."


What a wild and fascinating family reunion that would be. The life of the party would surely be Sadie, a character Leigh played in "*Georgia*."

The film, released in 1995, was co-produced by Leigh and written by her mother, **Barbara Turner**. In it, Leigh plays a punk singer with a penchant for bad love and fierce aversions to sobriety, responsibility and singing on key.

# Jennifer Jason Leigh

METHOD ACTRESS, DIGITAL DIRECTOR AND APPLE MASTER

IMAGES BY PETER SOREL  
INTERVIEW BY SCOTT HICKEY



Leigh physically transformed herself for the performance, which earned her "*Best Actress*" honors from the *Montreal World Film Festival* and the New York Film Critics Circle. After the film was finished, it took some time for her to recover.

"Sadie is tough girl. That was a hard experience because I had to loose so much weight. I was down to 89 pounds and looked emaciated. It took a while just to get my health back. I loved playing her, don't get me wrong - hanging out in bars, hanging out with the band - I loved every minute of it. The thing I liked most was that her life was so dangerous, but Sadie remained so full of hope all the time. It's kind of a beautiful way to live in that respect."

#### **Digital Director**

"*The Anniversary Party*," Leigh's latest project, is a film she and **Alan Cumming** co-wrote, co-directed and co-star in together.

The story centers on a recently reconciled couple (*Leigh and Cumming*) forced to explore their tenuous relationship at their anniversary party in front of friends. Leigh says she is proud of the film and the hard work that went into it. The film will be out this spring.

"*The Anniversary Party*" is one of an increasing number of movies filmed entirely on digital video. As co-director, Leigh was excited to explore the advantages offered by this new technology.

"The digital gear doesn't take up as much room, which means you can film in places you couldn't before. And you also don't have to reload all the time like you do with film."

Digital filmmaking hasn't been perfected. Film has the upper hand when it comes to having a warmer feel, Leigh admits, but digital video is still young and will surely improve over time. One of the biggest drawbacks to digital video, Leigh says, is transferring it to film.

"There tends to be a lot of artifacting, so you have to be careful and find someone who knows what they're doing or it can look horrible. We tried out several transfer houses before we finally found one we liked."



### Apple Master

Leigh cops to being a gizmo freak today, but she wasn't always comfortable with technology. Before buying her first Apple four years ago, she didn't know how to type. Today, she's a regular Mavis Bacon using her *G4 Cube* and *Cinema Display* to type up character notes and story ideas. Her spelling and punctuation skills, she says, have room for improvement: "I don't have time for commas."

Leigh is a long-time Apple fan. When she bought her first computer, she experienced first hand the retail bias against Apple. She literally had to convince the store to sell her an Apple.

"It was a time when you would go into a store, ask about a Mac, and the salespeople would say, (*whispers*) 'You don't want that. They're going out of business.' They didn't want to sell you a Mac. They'd give you all these reasons why a PC was better, which I never believed, and still don't. I was like, 'Just give my fucking Mac, and let me get on with my life.'"

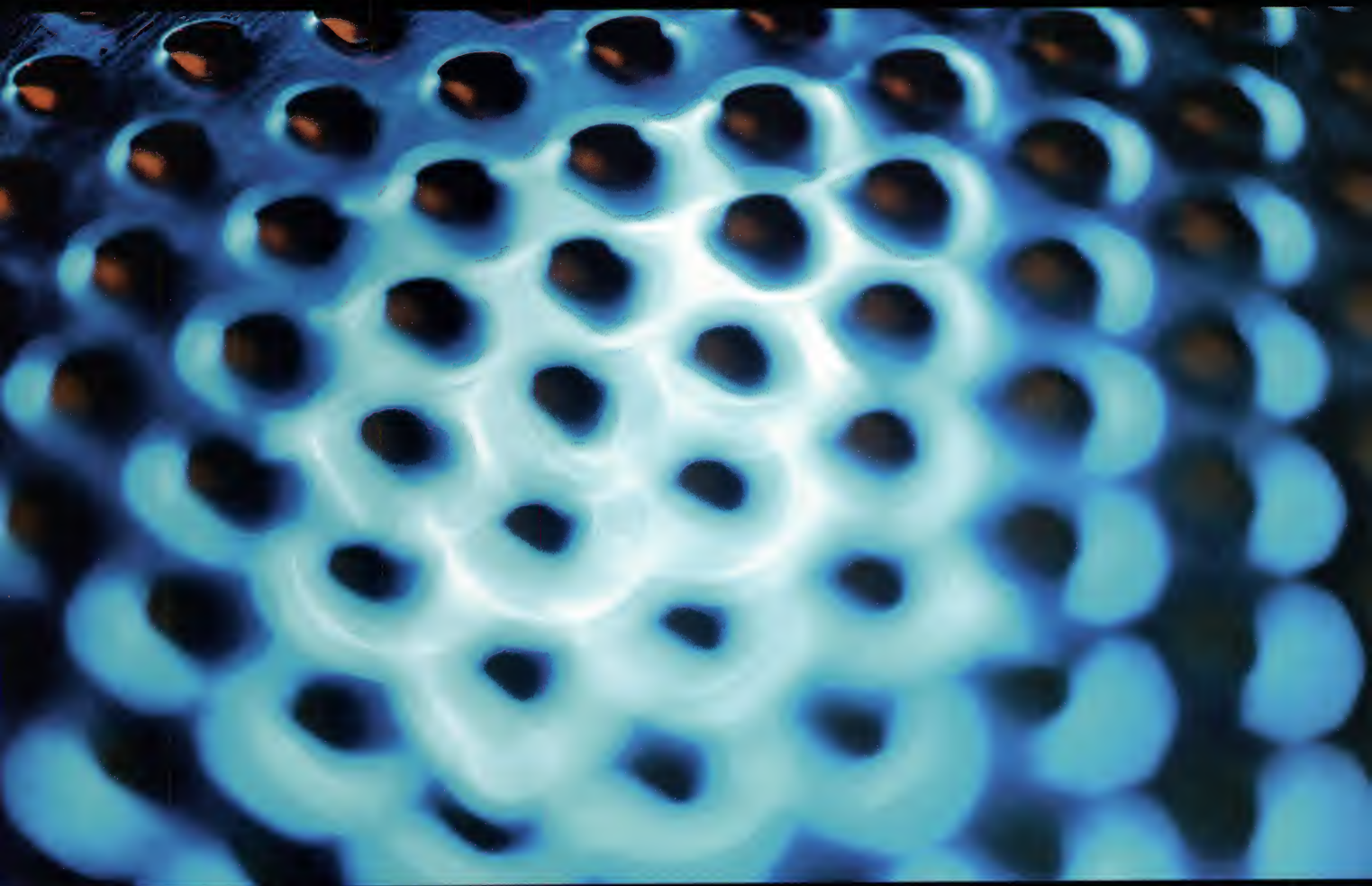
Delighted to be one of the original Apple Masters, she has tried to persuade Apple to induct some of her fellow Apple-loyal celebrities. She realized then how particular Apple is about whom they induct: "I'm glad I made the cut." ❧



"THEY DIDN'T WANT TO SELL YOU A MAC. THEY'D GIVE YOU ALL THESE REASONS WHY A PC WAS BETTER, WHICH I NEVER BELIEVED, AND STILL DON'T. I WAS LIKE, 'JUST GIVE MY FUCKING MAC, AND LET ME GET ON WITH MY LIFE.'"

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BY SCOTT HICKEY > IMAGES BY POSTER CHILDREN

## Poster Children

FROM THE SONG **ZERO STARS** > "WAKE UP AT THE CRACK OF NOON, AND HEAD OUT ON THE ROAD > GET LOST FOR AN HOUR WHILE WE'RE LOOKING FOR THE SHOW > TEAR THE ROOF OFF EVERY NIGHT AND LOAD BACK IN THE VAN > FIND A PLACE TO SLEEP BEFORE THE WHOLE THING STARTS AGAIN > WE KEEP MAKING RECORDS, WE KEEP WRITING SONGS > WE ARE HAPPY HIDING UNDERNEATH THE UNDERGROUND > WE DON'T PLAY ARENAS, WE ONLY PLAY IN BARS > WE DON'T NEED TO PAY SOMEONE TO PLUG IN OUR GUITARS > WE'RE ZERO STARS."

For more than a decade, The **Poster Children** have been blending pop and punk in the Heartland with a do-it-yourself aesthetic that takes the *Good Fight* against corporate-committee-approved music across the nation to the dark bars and smelly dives that double as the indie-rock granges of the underground music community.


**The band** - Guitarist and singer **Rick Valentin**, bassist and backup singer **Rose Marshack**, guitarist **Jim Valentin** and drummer **Howie Kantoff** - is proud to carry forward a legacy passed down from punk-partisans **Fugazi**, the **Dead Kennedys** and **Minutemen**. While the Poster Children are more accessible and less

trashy than those bands, they're no less infected with the *DIY-spirit*.

The quartet manage themselves, design their own t-shirts, Web site and album artwork, write and record their own songs, run 12 Inch Records (*the label they're side-project Salaryman records on*) and create the multimedia sections that have adorned several of their most recent albums.

Compact discs have a 75-minute capacity, and the Poster Children put it to good use. Along with the music, the band included multimedia portions on "*RTFM*" (1997) and "*New World Record*" (1999).

"'*RTFM*,' especially, has tons of information on it: how to start a record label, a short introduction to the historical movement of Situationist International and instrument and recording information," Marshack says. "'New World Record' contains a game, a touring simulator and three live videos. Our idea was to create and program the 'enhanced' portion of our CDs ourselves. That way we have complete control and can give our audience something we are proud of."



The band's next project, "Zero Stars," is a DVD that chronicles the band's experiences on the road with live performances interspersed. It's an honest, funny and poignant account of what it's like to be in a small band, on the road playing small clubs.

The idea for the movie came to Rick after talking to a director who wanted to film a live version of Scooby-Doo with a rock band driving around in a van solving mysteries, instead of a group of meddling kids.

"My response was you don't need all that extra plot. Just make a movie about a band driving around in a van that's interesting enough. My favorite two rock movies, The Beatles' "A Hard Day's Night" and Talking Head's "Stop Making Sense" are great, but they deal with an exclusive world. Most bands are not No. 1 on the charts, and don't have the money for an elaborate stage show. I don't really like most live albums and videos, but people always ask us when we'll would put out a record of our live show. "Zero Stars" is a nice compromise. There's live footage for fans who like that kind of stuff, and there's an equal amount of narrative scenes for people - like me - who would get a bit bored with 80 straight minutes of music."

**Shooting the scenes on a digital video camera, Valentin edited the footage with Final Cut Pro software on a G4 Mac.**

"I love editing on the Mac. I started editing full-motion full-screen video within five minutes of plugging in. I was in heaven. Previously, I had been working on an 8500 with Premiere and had made some lo-fi B&W music videos - a couple of which actually got broadcast. But the step up to DV editing on the Mac was a dream come true.

"I remember spending a lot of time and a lot of money in an editing suite years ago. Since then, I've been waiting to be able to do everything at home. Now for the price you'd spend on a day's worth of editing at a professional studio, you can build your own editing suite on your desktop."

The editing, which Valentin thought would be the biggest challenge, turned out to be the least of his headaches.

"I found that organizing scenes and actors friends - to be a lot more difficult. It's hard enough to get four people together to play music, but to get eight people together at the same time to shoot a scene for a couple of hours is almost impossible. Continuity was also another problem I constantly encountered. Now I understand why films have a person devoted exclusively to this area. Trying to keep track of what everyone was wearing during a scene shot two



weeks prior while also trying to set up the camera and microphones was a bit overwhelming. The next movie I make, everyone will be wearing black T-shirts and jeans."

Rose and Rick, the founding "members" of the band, studied computer science at the University of Illinois Champaign. They cut their teeth programming full-scale flight simulators with huge motion-bases, in an 8086 assembler. When they began designing and creating multimedia work they both switched to Macintosh and never looked back.

"I prefer to design on Macs because for some reason, the color palette makes it easier to make things look good. I have found that people who design using the Windows platform consistently turn out deader, grayer

"I have found that people who design using the Windows platform consistently turn out deader, grayer and boxier looking designs."

and boxier looking designs. Perhaps the standard is lower on the Windows platform, because it is so ugly to begin with."

Self-avowed Mac Freaks, Rick and Rose feel at home with the digital future.

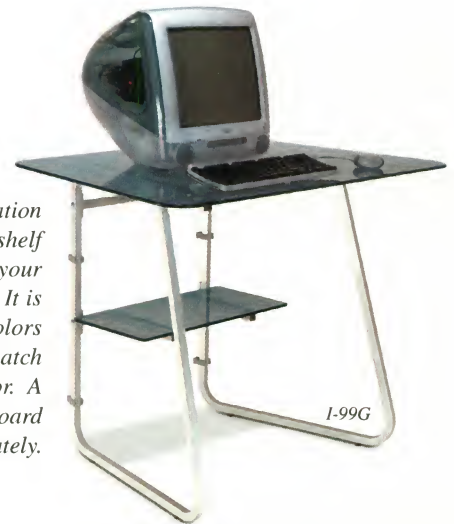
"We pretty much spend all of our waking hours sitting in front of computers. It's like they are extensions of our bodies. I feel like we breathe information; like information is our blood. We breathe information in by reading Web sites, and exhale by creating Web sites."

The Poster Children's Web site ([www.posterchildren.com](http://www.posterchildren.com)) is one of the most comprehensive and interactive band sites online. Alongside the standard band site fare - discography, tour dates and biography - the Poster Children add a few nice touches. Browse Marshack's tour diary for a witty and honest account of life on the road, flip through a growing list of books recommended by fans and the band or download episodes of band's very own weekly talk show. ❧

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# Jack Dangers

BY SCOTT HICKEY > IMAGES BY JAY BLAKESBERG

## Jack Dangers Breakbeat Blackout

JACK DANGERS IS A MASTER OF SOUND. HE FOUNDED THE INFLUENTIAL EXPERIMENTAL ELECTRONIC OUTFIT **MEAT BEAT MANIFESTO**, WHICH WENT ON TO INSPIRE THE CURRENT CROP OF BEAT PURVEYORS. HE'S TOURED AROUND THE WORLD, ROCKED THE ACID HOUSE AND ALONG THE WAY SOLD A STACK OF WAX, BUT RIGHT NOW HE CAN'T SEEM TO GET A LIGHT.

Calling between the rolling blackouts that have become an unfortunate part of the California experience, **Dangers** is waiting for Apple to develop a solar powered Mac to help him through these energy-starved times.

"The worst part is you don't know when it's coming. A friend of mine was working on his computer when the power went out. Doh! He lost hours of work. There's not much you can do."

Dangers may be waiting a bit for that still fictional iHelios Mac, but nevermind that now. He's sitting pretty with a *Power Mac 9600*, which he uses for everything -

from picking up email to mixing songs. Four years ago, he switched from an Atari Mega 4 to an Apple.

"I wish I had more computers, I do, but I don't have the room. It's nice though, that I can do everything with one."

## Friendly Mixer

Dangers has been a musical nomad for 15 years covering a great deal of musical ground - industrial, electronica, drum and bass, drugged out dub, remixer, producer and above all sound innovator. For all his wandering, Dangers maintains a brisk pace. Last year, he released the "*Eccentric Objects*" EP with *Meat Beat* and several volumes of Tino's Breaks, an acclaimed series of breakbeats.

Dangers' latest - "Hello Friends" - is an album of songs originally released by **Tino Corp.**, a record label run by Dangers and Ben Stokes of the band DHS (*Dimensional Holofonic Sound*).

"Shadow records came to me about doing a remixing project, and had me pick a label whose songs I wanted



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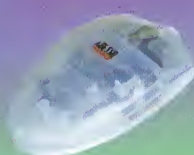
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to remix. I picked Tino Corp. It's all very incestuous, but I really like the music."

"Hello Friends" is Dangers' first mix CD, and a welcome change of pace from the heavy yoke he pulls for Meat Beat Manifesto projects.

"This is really a DJ set. All the hard work's done. I don't have to write any songs, I just pick some songs to play. I mess around to see what songs flow best from one to the next. I lower the pitch of some songs to match them up and make sure the beats per minute are the same. Then I add toys - extra effects - to the sound, and basically I'm done. I like that."

#### **Dawn of the VJ**

A veteran of the club scene where visual stimulation is an important component of the musical experience, Dangers envisions mainstream music pursuing a similar path. Who's to argue? A decade ago, who expected the DJ to assume such a prominent role in rock music?

"Now you see DJs being integrated into rock bands without a second thought. The turntable has become another instrument, and I think at some point in the next five or ten years you'll see video samplers become band members too. It adds another element to the

performance."

The technology is out there. Programs like VidVox are real time video samplers that use a keyboard to trigger video samples. The touch of a key immediately plays a prerecorded video sample allowing a talented VJ to create a wild visual ride that compliments the music.

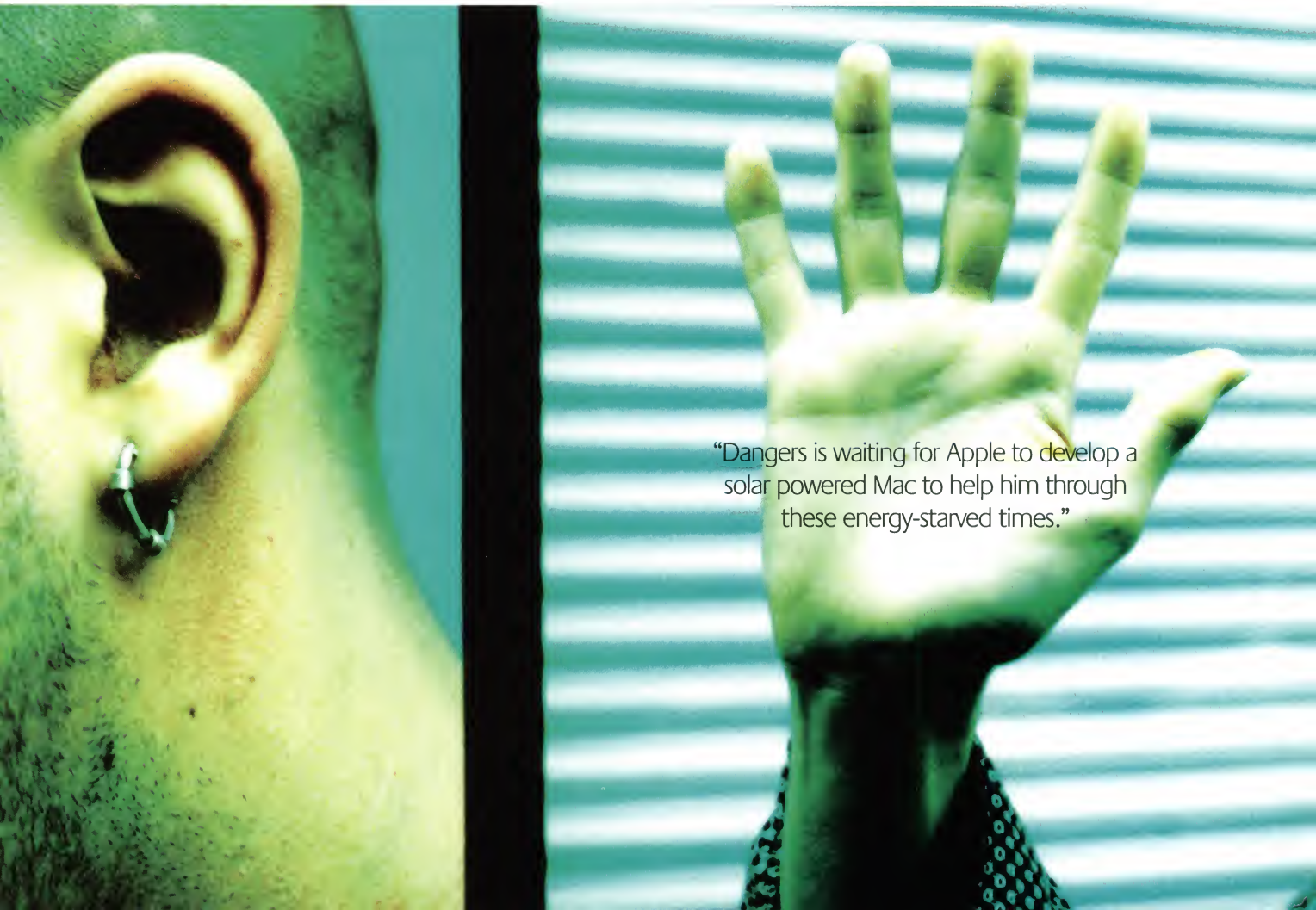
Tino Corp. shows, Dangers says, are visual extravaganzas courtesy of Stokes, who also created videos for Meat Beat Manifesto, De La Soul and Public Enemy.

"Ben is such a great innovator. What he does with video is truly great. He's a great musician too. Lately, he has been focusing more on music and getting away from video. It's hard for him because he's torn between these two loves that he's great at and he has to strike a balance."

Finding that balance is half the fun for Dangers, who's perfected musical exploration into an art form. Now if he could just find a light. ☒

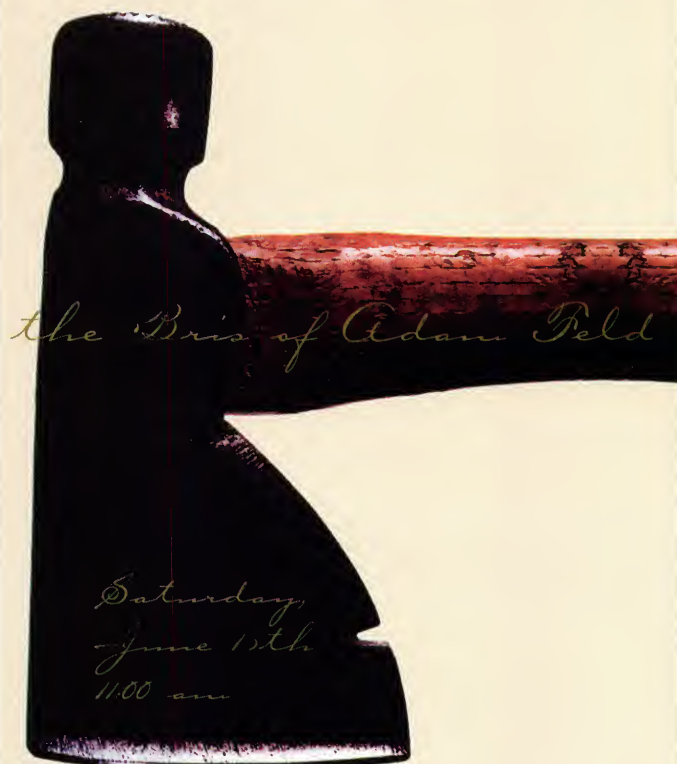
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# Jonatha Brooke

INTERVIEW BY JEFF BATTERSBY

IT DOESN'T TAKE LONG TO FIGURE OUT THAT JONATHA BROOKE HAS A WHOLE LOT MORE GOING ON THAN YOUR AVERAGE ROCK-AND-ROLL STAR. FIRST SONG, FIRST CHORD, FIRST WORD AND YOU HEAR HER LIQUID VOICE POUR OUT OF YOUR TWO-BIT SOUND SYSTEM. IT'S BECOMES ABUNDANTLY CLEAR THAT YOU'LL BE SPINNING HER CDs FOR SOME TIME TO COME.

In March of 1998, while she was still on tour for her critically acclaimed *"10¢ Wings,"* her option came up with **MCA/Refuge**. Instead of maintaining their existing contract, which included pushing a couple of singles and producing a music video, MCA offered her a huge budget cut on her next project. Jonatha countered by offering them a six-month extension on her contract with the hope that they'd follow through with their original agreement. That was a Friday. By Monday she was persona non grata at MCA.

Rather than sit home and sulk, she dragged some recording tools out on the road - for what was left of her *"10¢ Wings"* tour - recorded a live album and released it via the web on her own label, Bad Dog Records.

"Steady Pull," her second independently released disc, went on sale in December through the Jonatha Brooke web site ([www.jonathabrooke.com](http://www.jonathabrooke.com)). I spoke with Jonatha in New York.

**MacDirectory:** You released *"10¢ Wings"* and then MCA/Refuge pretty much dropped you in the trash. How did you get the idea to go to the web? What made you even consider that as an option?

**Jonatha Brooke:** "We had created a web site that I was way less involved with when I was on Refuge with *"10¢ Wings."* Then, when that fell apart, we just wanted to revamp the whole thing, take it over and make it more personal, interactive and a little friendlier. Just more like me; more conversational.

"Then I decided, what can I do [about being dropped]? I could be creative and move forward and do something to tide me over until the next studio record, and that became the *"Live"* record. [I went out and] recorded the shows because I had two months more of touring. Then the Web site became this really great feeling ground, this great tool to see, 'Now we've made this record and we're trying to do this thing ourselves and it's really new and scary and my life savings went into it. Let's just see how it goes. Let's just offer it on the web site first, if people can even do this.' We were one of the first people to actually have e-commerce from my Web site directly. We wanted to see if it was even worth releasing this to retail."



"We were one of the first people to actually have e-commerce from my Web site directly. We wanted to see if it was even worth releasing this to retail."

**MacDirectory:** In some of your earlier interviews you noted some ambivalence about the Web in general and about music on the Web. What's your take on it now?

**Brooke:** "I think I'm ambivalent on a personal front because I seem to be a little behind the scale in terms of being computer literate and comfortable with navigating. I'm just a typewriter kind of girl. So that was part of my reluctance. I also thought that there was just so much hoopla going on around how this was going to be the "big next wave" and this was going to "take over the industry" and this going to be the way to level the playing field between the majors and the indies because anyone can now get their music heard on the Web. And I just felt like, 'Let's wait and see.' It remains to be seen. And just from seeing how many CDs are actually sold over the Internet compared to what retail is doing, it's been really interesting to see that it hasn't exploded the way that everyone thought it would."

**MD:** How many albums are you selling? **Brooke:** We sold, through my Web site, about 3,000, which, for web sales, is great. And, because we put it out first over the Web site, before we sent it to retail, we were selling a couple hundred a week and that was pretty big news.

**MD:** Will "Steady Pull" be released first on the Web? **Brooke:** "I think it will be simultaneous. But, if you purchase it in advance, you will be able to download a song every couple of weeks, for maybe five or six songs, before the album is in stores; before you actually have it in your hand. This way, if you commit to us first, we'll throw you a taste."

**MD:** I'd heard that you were going to release time-limited MP3s, is that the direction you're planning to head? **Brooke:** "Yes. When the record is released, it will arrive at your door, and the downloads will time out. Then you'll have the real thing in hand. Hopefully, it will create some excitement for the fans to get a taste of the album in advance and will take advantage of the amazing technology that's out there."

**MD:** Have you checked yourself out on Napster? **Brooke:** "I've looked a couple of times and it's pretty frightening. There were like a couple hundred selections."

**MD:** Is the live stuff bootlegged? **Brooke:** "Probably. Actually it's weird, once in a while I'll be doing a gig and I'll see little red lights around the room and I'll be like, shit, I don't want to be an old fuddy-duddy spoiler, cause I can understand how that would be really exciting to have. I can see that. But I'm really wary. I'm not the Grateful Dead. I'm not making a ton of money touring at this point. I need record sales to stay alive. And that's the whole beef of it. And, I think, if not for the whole Napster, anarchic approach and the fact that everyone thinks that it's us against the major labels, and we're going to kick their asses. I think that because the most visible spokespersons for the artist's side of the story is Metallica, they're really easy to pinpoint and say, 'What are you so worried about? You're gazillionaires.' But there's very little press for mid-level artist like me for whom it is groceries and rent and the phone bill. And I think that it is a hard idea to get across to kids for whom it's going so fast and everything is in your face and you can have it right now and it should be free. [And they think] 'Why should I pay for this?' It's a really hard argument to make."





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**MD:** The other obvious thing is the copyright laws and the fact that I'm taking your song off of your CD and somebody else is getting it for nothing. **Brooke:** "There was a huge back-and-forth on my posting board over the whole Napster thing. There was a heated debate, and I sort of stayed out of it. I wrote one comment in the beginning and then when it got really profane I stepped out. It got really vitriolic and abusive. They got really violent about it [and said things like] 'Jonatha, what's up her bum? Why's she so upset about Napster? Music should be free! She's doing fine, what's she worried about.' Then there were all these people running to my defense saying, 'Who do you think you are? Music shouldn't be free. She works her ass off to write this stuff and produce it and she's paying for it all her self.'"

**MD:** How many copies of "Live" have you sold overall? **Brooke:** I think we're around thirty-ish, thirty-two [thousand].

**MD:** Is that good? **Brooke:** "I don't know. Of course, we hoped for a million-gazillion, but it's a little live record and it's got its quirks and squeaks. It's beautiful. I'm proud of it. But it was so fledgling, and we were doing it all ourselves; trying to pay the indie promoter and the radio people, funding the Web site and trying to stay on the road and do some more gigs to keep it in people's minds. So, I think it's respectable. It certainly broke even. We didn't totally lose our shirts. More importantly, it was a real psychological [boost. I realized that] I can do this as well as MCA or better. At least it's my failure or success at the end of the day."

**MD:** How do you feel your audience's response has been? **Brooke:** "I think they love the fact that, number one - I took the high road and I kept moving forward and finding these productive cool ways to get myself out there. I think they like being part of this, sort of, 'underdog' groundswell. And they like helping someone that they really believe in who has moved them."

**MD:** Have you noticed an audience increase? **Brooke:** I think that the Web has really helped. I think that's because you have your whole mailing list and you can email in one little blip and you're not spending twelve hundred dollars on your mailing. That's huge."

**MD:** Has your mailing list grown? **Brooke:** "Oh yes. I don't have any numbers. I should check the numbers because I don't even know. But, the great thing is that the gigs are all listed on the Web site. So someone in Ohio who just saw me will call their friends and say 'I just saw a show, you just have to go.' It's a great tool for that."

**MD:** When will you start touring for "Steady Pull?" **Brooke:** "Probably in March. We'll give it a little time to get going in Triple-A radio [format] and then go out on the road."

**MD:** Any interest in returning to a major label? **Brooke:** "Not right now! I mean, if a major were to come to the table and make a distribution deal with me where I would own my masters, but they would help distribute and somehow share in the upside, but I would control the plan. That I'd talk about. But I have no interest in giving up that much power again." ❖

Jonatha Brooke's new CD "Steady Pull" is available from [www.jonathabrooke.com](http://www.jonathabrooke.com).

JEFF BATTERSBY IS A WRITER LIVING IN UPSTATE NEW YORK.  
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## Macs in Odessa

WORDS AND IMAGES GREGORY ZHUKOV

ODESSA, A CITY LOCATED IN THE FORMER SOVIET UNION IN UKRAINE, WAS FOUNDED IN 1794. SITTING ON THE WEST SIDE OF THE BLACK SEA HELPED THE CITY QUICKLY BECOME THE MAIN TRADE SEAPORT OF RUSSIA. THE GOVERNMENT MADE THE AREA TAX-FREE FOR ALL KINDS OF TRADE WHICH GAVE THE CITY AN INTERNATIONAL FLAVOR.

One of the things the history books won't tell you about **Odessa** is its sense of humor, says **Gregory Zhukov**, President of *Computer Systems Odessa*.

"When people leave this city they keep that Odessian lifestyle in their hearts and always value humor," he says. "In fact, the most

famous Odessian holiday is *April Fools Day* on April 1. It's so big the city government prohibits traffic downtown, and about half million people come to Odessa from all over Europe and Russia to celebrate humor, art and spring. I often hear that New Year in Odessa begins at April 1. That's not too far from the truth."

One thing that some Odessians aren't laughing about is the obstacle facing Apple in the Ukraine, says **Valery Ryazanov** of *Computer Systems Odessa*.





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"Apple is not very well known. I suspect that people outside the computer industry don't even realize there may be a computer with a different feel and look. The more informed people usually know that the Mac has a one-button mouse, which people find very surprising. Since Macintosh computers are quite rare, and due to their fantastic, non-traditional looks, they are respected with a kind of mystic awe by those seeing them for the first time." High prices keep Apple from becoming a household name, Ryazanov says.

"The computers are produced in the USA, which means high

transportation costs and import taxes. Most PC computers are assembled locally, so an iMac costs about twice as much as an equivalent PC machine."

This summer, a *Blueberry iMac 350* sold for \$900 by Apple cost \$1,240 in *Odessa*.

Since Apple launched their new range, the computers became much more affordable. Now a lower-end *iMac* priced \$800 by Apple can be bought here for \$960. However, a PC computer comparable to iMac by processor speed and hard disk capacity can be acquired for about \$500.





ODESSA > CAPITAL OF ODESSA REGION IN UKRAINE > A PORT ON ODESSA BAY OF THE BLACK SEA > TERRITORY 160 SQUARE KM > POPULATION 1,122,000 (1995). THE THIRD LARGEST UKRAINIAN CITY AFTER KIEV AND

KHARKOV > A MAJOR INDUSTRIAL, CULTURAL, SCIENTIFIC, AND RESORT CENTER IN THE NORTHERN BLACK SEA REGION > RUSSIANS, UKRAINIANS, AND JEWS PREDOMINATE IN ODESSA'S COSMOPOLITAN POPULATION.

"This mostly refers to the Ukraine, but I'm sure the situation in other eastern European countries is very similar. But in general, there are still quite a few Apple enthusiasts over here, and the perception of Apple is of a company with its own easily-recognized image that produces fantastic products that rival *Microsoft*."

Even if you have the money, the availability of Macintosh computers is still limited in Odessa, Ryazanov says.

"Macintosh computers are available, though it may be difficult to find spare parts to older models. But the entire range - from *iMacs* to *G4 Cube* - is present. The only thing is that the choice of

color within one model is very limited. Most *iMacs* are only available in one color - Blueberry, normally. Currently, there are three stores where you can purchase a Mac. But the total number of Macintosh computers in Odessa hardly comes up to 300." Customer service is another obstacle for Odessian Mac users, Ryazanov says.

"Well, there's no established support here. Though resellers offer a one-year guarantee for all Apple products, it's very difficult, almost impossible, to upgrade a Macintosh computer to a newer model. The strongest need is felt in processor upgrades (*603* to *G3* etc), that are almost unavailable or unreasonably expensive.





IN ODESSA, THE FREE DEVELOPMENT, USE AND PROTECTION OF RUSSIAN, AND OTHER LANGUAGES OF NATIONAL MINORITIES OF UKRAINE, IS GUARANTEED. THE STATE PROMOTES THE LEARNING OF LANGUAGES OF



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This impedes further expansion of Macintosh a great deal, because in terms of PC, all vendors offer hard disk upgrades or processor upgrades and many people use this rather than buy whole new computers.

"The positive thing, however, is that I don't remember any of our Macintoshes breaking down. All the machines are working though some are of venerable age (*like 1995-year PowerPCs and even one Quadra 650 which I can't even remember*).

One monitor broke down, but we got it repaired by a PC hardware vendor. And we had to fix four PC machines during the

last two years - motherboards, hard disks, video crashes. We upgraded some of the Macs ourselves - added a larger hard drive, more memory. Memory for pre-iMac computers is very expensive and hard to find, it costs 3 times more than for PC."

The importance of the Internet as important source of information is growing for Odessians, Ryazanov says.

"The Internet has expanded greatly, and is used by a growing number of home users and companies. Most companies have web pages, even those operating on the local market or even





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within the city. What stops the Internet expansion are the phone lines, which are mostly very old and don't allow for higher speeds. But the number of newer lines is also increasing. Nevertheless, the number of Internet users is still very low - about 2% of the population use the Internet, that is, less than one million - out of 50-million population. Mobile phones are getting popular as well, though the communication costs are huge compared to regular phones."

Unfortunately, Apple is relying on word-of-mouth to get the word out about the company, Ryazanov says.

"Apple doesn't run any ad campaigns or promote its products here. There're no dedicated Macintosh publications in the country like MacWorld or MacHome magazines. Actually, a lack of information is very noticeable. Up-to-date info can only be obtained via the Internet. However, I noticed that Apple and their products do get mentioned in some PC related publications more often than before. It's also very sad that some products available through Apple Store only - like *MacOS X* public beta - can't be acquired from the Ukraine, because it's not in the list of the countries Apple ships to."





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There is more to Odessa than computer circuits and a fine sense of humor. The city is also a beautiful place to live.

In the spring, the city is alive with color of white acacia, deep-green trees, brown bushwoods, black antique street lanterns all nestled by the deep translucency of the turquoise *Black Sea*.

**Helen Nersesova**, is a life-long resident of Odessa, and wouldn't have it any other way.

"It's a funny, lovely city that's full of life. Odessa has a famous confectionery that sells a lot of different candies, cakes and chocolates. If you have a chance to visit Odessa, it will certainly make your dentist happy."

The way the city was built many years ago, Helen says, makes it impossible for the Odessa to build an underground mass transit system so residents rely on cars, minibuses and trams.

"Odessa was built from shell rock mined from deep under the city. By the twentieth century the mines grew and the network





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of catacombs stretched out under the city to the suburbs. It's caused a lot of trouble for our city's public service department."

Odessa is a beautiful, historic city that has many interesting places to visit including an opera house that is very famous throughout Europe. Over the years, the city has gained popularity with tourists who come to enjoy the history, architecture and culture this proud city has to offer. ✂

Special thanks to Gregory Zhukov for the story and images. Zhukov founded CS-Odessa in 1993 in Odessa, Ukraine. CS-Odessa ([www.cs-odessa.com.ua/](http://www.cs-odessa.com.ua/)) develops and publishes business and home software for the Macintosh and PC, as well as customized solutions. Their flagship product is ConceptDraw [www.conceptdraw.com](http://www.conceptdraw.com) - the powerful diagramming and charting application for Mac OS and Windows, which was recently shown at MacWorld Expo in SF.





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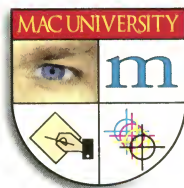
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**Gordon Terry**

IDEALIZED SETTING (DETAIL) 2000

## Creating Art Without a Macintosh

WORDS BY SCOTT HICKEY

AKIN TO A DAREDEVIL TRAPEZE ARTIST FLYING THROUGH THE AIR WITHOUT A NET, GORDON TERRY IS AN ARTIST WHO LIKES TO PAINT WITHOUT A CANVAS.

A work-in-progress dries in the corner of his Brooklyn studio on a plexiglass square that rests flat on pair of sawhorses. The image is an expansive abstract made of acrylic, which creeps across most of the 6-foot square. The image's vibrant colors violently churn and fan out like a psychedelic peacock caught in a blender.

When the paint is fully congealed, Terry will pull the paint from the plexiglass like a stylized pudding skin, and wrap it around a clear frame like a Saran Wrap trampoline.

A finished painting - titled "They Hover on the Brink of Vacancy, and Are in Their Shadowy Composition Next of Kin to Non-Entities" - hangs on a nearby wall. The opaque dots on a translucent field bring to mind a mutant cell structure and demonstrate how Terry uses the paintings

to engulf and expose the frame. His technique creates the impression the image is floating on the wall.

The translucent acrylic allows light to shine through and projects the blue and purple dots onto the white wall on which it hangs. The striking effect brings up a spatial question about the image - are you looking at the front or back?

"The transparency of this work is very important to me. It's interesting to me that these paintings can function both as windows into another space and time, and as specific objects that literally reveal the process of their own making."

Terry's earlier work mixed text in with images inspired by apocalyptic literature and pulp-science fiction. The words and futuristic images are gone from his current work, but the artist compensates for the lack of visual verbiage by giving the images complex titles like "A Precisely

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Modulated Indifference to Consequence."

His current work focuses on hyper-essentialization of the materials and the processes he uses to create.

"I decided to make something completely out of one material, to the point where it would almost start to dematerialize. There is no canvas, no wood and barely any paint. Where refinement meets luxury is the nexus of my recent work, what I call Decadent, Dandified

Abstraction. My paintings are refined to near dematerialization, essentialized to an extreme, refined to a point that is dangerously close to a loss of substance."

Gordon Terry's work is featured online - [www.artnewyork.com/keenan/html/terry.htm](http://www.artnewyork.com/keenan/html/terry.htm) and he has shows scheduled this year at g-module Gallery in Paris and at Bronwyn Keenan Gallery in New York City.



# Apple's Salvation?

IMAGE BY RICK CARROLL > WORDS BY MACDIRECTORY STAFF

The *Titanium PowerBook*, Apple's latest marriage of style and technology, made its debut at *MacWorld* San Francisco in January to many oh's and ah's from the audience. The latest hardware is a much needed shot in the arm for Apple's line of laptops.

**But does the new PowerBook save Apple from its recent financial difficulties?**

As with all Apple products, the *Titanium PowerBook* is a visual wonder to behold, and is sure to inspire laptop envy among the owners who bought a portable from one of the cookie cutter computer companies. The *Titanium PowerBook* weighs 5.3 pounds, is one-inch thick, boasts a 15.2-inch wide screen, a front-loading DVD slot and is made of commercially pure titanium. It's an engineering marvel.

*Titanium* has many industrial uses aside from the *Powerbook*. As **Steve Jobs** mentioned in his keynote address this winter, spy planes and submarines were made with titanium. A few uses he missed: the white 'M' on M&M's (*titanium oxide*), jewelry, bicycle frames, golf clubs and baseball bats.

*Titanium* is stronger than steel, but 45% lighter. This strength-to-weight ratio makes it

the perfect alloy for a *Powerbook* owned by a businessperson on the go.

Many Mac enthusiasts suggest Apple needs to diversify its product line beyond new desktop and *PowerBook* models. A recent MacDirectory poll shows more than 83% of our readers strongly recommend Apple introduce new products like a *PDA*.

As the PC slowdown continues, the research firm *NPD Intellect Market Tracking* notes that US sales of *PDA*s more than doubled in 2000. Analysts and members of the tech press have long drawn correlation between the timing of the PC slowdown and the explosive growth of *PDA*s, because the rise of *PDA*s corresponds, almost directly, to the slowdown of the PC market.

Although orders started coming in for the *Titanium PowerBook* as soon as it was announced, the hardware didn't actually hit the street until early-March. That makes it much too early to render a verdict about Apple's latest *PowerBook*. One thing is certain, however, Apple needs to rebound from the disappointing sales of the *G4 Cube*, which was its last big announcement.

*Mac OS X* is another wild card that could

greatly impact Apple's future. *OS X*, some think, will help lessen the negative effect of the PC slowdown on Apple. Many Mac enthusiasts are waiting with baited breath for the "*avalanche*" of third-party *Mac OS X* software Steve Jobs promised will land by summer.

Among those *OS X* goodies that have Mac enthusiasts salivating include the 3-D rendering software *Maya*, *AirPort* printing and font management, a more fully implemented and minimized *QuickTime*, a toolbar customizable to a user's preferences and a customizable finder window.

The main problem with *Mac OS X* has been the wait. When the new operating system is finally released in March, Mac enthusiasts will have waited six months longer than they expected. The delay has raised expectations, and everyone will have to wait to see if *OS X* can meet them.

With *OS X* and the *Titanium PowerBook* being planted this spring in less than ideal market conditions, everyone will have to wait until the end of this year to see if these seeds will take root and give Apple a stable footing for the future. ☒







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